



An account of those described rock collections in the British Museum (Natural History) made before 1918; with a provisional catalogue arranged by continent

D. T. Moore

Department of Mineralogy, British Museum (Natural History), Cromwell Road, London SW7 5BD.

Contents

Synopsis	141
Introduction	141
Collection and curation	142
The rock collection at the British Museum	142
The collection of the India Museum, London	144
The collection of the Geological Society of London	144
Acknowledgements	145
References	145
A provisional catalogue of described rock collections made before 1918; and some other historical collections	146
Africa	146
North America	151
South America	154
Antarctica	157
Asia	158
Australasia	163
Europe	165
Oceanic Islands	168
A provisional collectors' index	171
Geographical index	175

Synopsis

Those described collections of rocks in the British Museum (Natural History) considered to be of historical interest are listed by continent, in order of collection, with a collectors' and geographical index. The history of the collection at the British Museum and later the British Museum (Natural History) is briefly outlined, together with the history of two of the more important collections, those of the India Museum (London) and the Geological Society of London, which were eventually amalgamated with it.

Introduction

At the present time the principal purpose of the rock collection of the British Museum (Natural History) is to aid petrological research, and the bulk of the newly acquired material is obtained with such research in mind. The collection is, however, particularly rich in specimens of historical interest, and this account is concerned with that material: it is not intended as a catalogue of the whole collection. Although the older collections naturally tend to have an intrinsic historical interest, material does not have to be old to be historic. The rocks collected on the 1924 Everest Expedition and the collection made on the 1955–58 Trans Antarctic Expedition, for example, are properly regarded as belonging to this category.

Although there are several earlier accounts of the history of the rock collection in the British Museum (Natural History) there has never been a comprehensive account. Fletcher (1904) traced the beginnings of the collections of minerals, rocks, and meteorites, and gave a chronological list of rock acquisitions, with references, up to 1903, but Fletcher's account was written before the

Geological Society Collections were acquired. Detailed catalogues are available for Africa (Campbell Smith, 1928), North and South America (Campbell Smith, 1932), and Antarctica and Australasia (Campbell Smith and Game, 1954). In the introduction to the African volume Campbell Smith (1928) traces the early history of the collection and mentions some of the more notable acquisitions. It is unfortunate that Asia, Europe and Oceania were not covered in this series. A more comprehensive listing of the collections is given by Bishop *et al.* (1971) though with little detail for each collection.

The present catalogue has been compiled with the aims of bringing the published list of described collections of historic rock material up to 1977, as well as covering the areas not included by Campbell Smith (1928, 1934), Campbell Smith and Game (1954), and Bishop *et al.* (1971).

Collection and curation

From the time of the foundation of the British Museum in 1753 until 1837 few records of rock acquisitions were kept, but a system of registration was introduced in 1837 which ensured that accurate records were maintained thereafter. From these records Figure 1 has been prepared showing the numbers of specimens registered over the last 140 years. Three particularly large collections are worthy of mention, namely those of Samuel Allport (1816–1897), the India Museum, and the Geological Society (see Fig. 1.).

New acquisitions to the rock collection have always been numbered and housed in order of registration. Although this system has considerable advantages, particularly in economy of storage, it does not enable rocks acquired from the same locality but at different times to be kept together, nor does it enable material collected during an expedition but acquired by the Museum at different times to be numbered in order. This problem applies particularly to the India Museum and Geological Society Collections, which in some cases included parts of rock collections which were already represented in the Museum. The problem is however overcome by card indexes.

In the nineteenth century a considerable period of time often elapsed between the collection of the specimens, and the acquisition and registration of the material by the Museum. For example, the Flinders/Brown collection of Australian rocks made in 1801–5 was acquired by the Museum in 1811, but not registered until the 1890s. For this reason the present catalogue has been arranged within continental subdivisions according to year of collection, as far as this can be determined. The Campbell Smith catalogues (1928, 1932 & 1954) and the catalogue of Bishop *et al.* (1971) are geographical in arrangement.

For some of the older collections in particular, it is often difficult to establish who was the actual collector. Consequently, the 'Collectors' Index', at the end of the catalogue, can only be provisional. Also, whilst every effort has been made to ensure accuracy in the catalogue, it should be understood that this is often difficult to achieve in a collection of this size and age.

Details of the collections for registration are obtained from lists, diaries and other documents acquired with the rocks. Where they still exist, these manuscripts are housed in the Mineralogy Library, British Museum (Natural History).

Most early geological collections included specimens of minerals and fossils. These are not kept with the rock specimens, but have been incorporated into the mineral collection and the collections of the Department of Palaeontology, respectively.

The rock collection at the British Museum

A considerable amount is known about the early years of the mineral collection in the British Museum (Campbell Smith 1969, Fletcher 1904), but the rock collection is less referred to.

In the late eighteenth century two important geological collections that contained rocks came to the Museum. The Museum of the Royal Society of London was given to the British Museum in 1781. Grew's (1681) catalogue of the Royal Society Museum is extant but, unfortunately, none of the known geological/mineralogical specimens appear to be, although Woodward (1904) lists

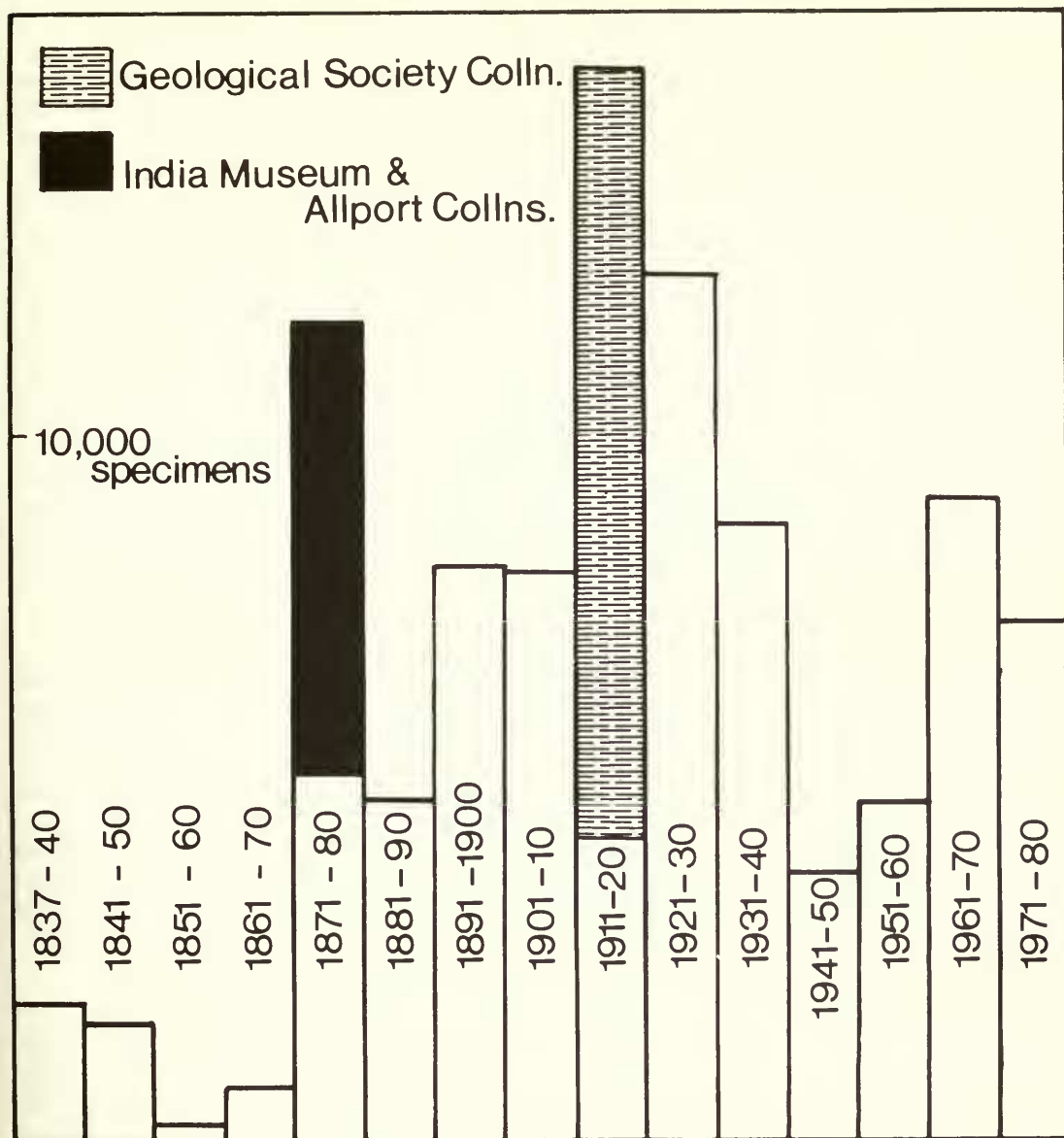


Fig. 1 Registration of rock specimens in the British Museum (Natural History) from 1837-1980 by decade. The total number of registered specimens at the end of 1980 was of the order of 99,000.

palaeontological material as being still in existence in his time. A second eighteenth century collection known to have contained rocks (Stern, 1981), and collected by Captain George Vancouver, RN (1757-1798) and the naturalist Archibald Menzies (1754-1842) in the Pacific, came to the Museum in 1796. Many of Menzies' plant specimens survive in the Department of Botany, but none of the geological material can be found.

Vallance and Moore (1982) pointed out that the *Synopsis of the contents of the British Museum* (8th edition, 1814: 54) lists 'Mountain rocks and other minerals, from the South Sea: King George's Sound, New Georgia and & C' as being in case 16 of room 8 at Montague House. Room 8 also had other rock specimens on display according to the *Synopsis*. The 1808 Edition of the *Synopsis* records that in room 8 there were rock specimens from King George's Sound

[Western Australia], New Georgia [Solomon Islands] and Dusky Bay [New Zealand]. To have been on display at Montague House in 1808 they must have been collected in the late eighteenth, early nineteenth century, and the expeditions of Vancouver and Cook seem likely collectors. Unfortunately, there are indications that following a rearrangement of the mineral collection in 1817 by Charles König (1774–1851) these specimens were lost or thrown away, at any rate they are never mentioned again and cannot now be found.

It is known (Campbell Smith 1969:257) that König also moved some rock collections to the basement of Montague House in 1824, and that due to the dampness some of the labels were destroyed. Campbell Smith (1969) suggested that rock material collected by Sir John Ross (1777–1856) on his Arctic expedition of 1818 was lost at this time. (Interestingly, Ross's material now in the Department came from the Geological Society of London). There was disturbance again in the 1830s and 40s when the present British Museum building was occupied, and again when the collections were moved to South Kensington in 1880.

There followed a burst of registration of rock collections in the 1890s, (some of the collections registered at that time had been collected 90 years before), and a separate rock register was begun in 1898. This suggests that little curation of the rock collection was undertaken at Bloomsbury.

In the late nineteenth century and early twentieth century two other large and important rock collections were amalgamated into the present rock collection of the British Museum (Natural History). They were the collection of the India Museum, London, and the Museum of the Geological Society of London.

The collections of the India Museum, London

The India Museum and Library of the British East India Company began its existence in 1801, under Sir Charles Wilkins (1749–1836) according to Arberry (1967:24). The Museum was by no means concerned solely with geology, and was under the direction of the Librarian until 1837. Thereafter the scientist in charge of the Museum was Dr Thomas Horsfield (1773–1859).

When the parent company's existence ended during the India Mutiny, the Museum moved from the Company's House in Leadenhall Street, London, to Fife House off Whitehall, then to galleries at South Kensington, and the dispersal of the contents began. The geological specimens came to the British Museum, soon to be the British Museum (Natural History), in several batches between 1860 and 1879. The question of the India Museum collections however, is discussed in more detail by Moore (1982).

The collection of the Geological Society of London

According to Woodward (1907), the museum of the Geological Society existed as early as 1809, and by 1819 G. B. Greenough (1778–1855) asked for a committee to be appointed to administer it. In its early days the museum was divided into two, with a section for beginners, which included simple minerals and fossils, and a section for the more proficient, which included foreign specimens, and material of a controversial nature.

By the time the Society was established at Somerset House in the 1830s, Leonard Horner (1785–1864) appears to have been the curator of the museum. The museum at this time was situated on the third floor of Somerset House (Woodward 1907:75), but appears to have been little used (Woodward 1907:145). William Lonsdale (1794–1871), a survivor of the battles of Salamanca and Waterloo, succeeded Horner as curator until 1842, when Edward Forbes (1815–54) succeeded him.

By 1860 it was felt that the Society's museum should concentrate on its foreign collections, as the Museum of Practical Geology in Jermyn Street was well placed to provide British specimens (Woodward 1907:245). Also, it was becoming clear that the library was growing faster than the museum, and needed more space than was originally allocated (Woodward 1907:246). Consequently, the Council decided in 1869 to restrict the acquisition of specimens to the museum.

The Society moved to its present apartments at Burlington House in 1874, and there followed

a rearrangement and dispersal of some museum material. At this dispersal material went to the British Museum, the Museum of Practical Geology, King's College, London, the University of Cambridge, and the Orphans Working School, Haverstock Hill, London (Woodward 1907: 249). In 1895 Dr H. Woodward (1832–1921) hinted that expansion of the library would soon require the space occupied by the museum, and in 1901 the idea was accepted that the time was right to transfer almost all the specimens in the museum to other institutions (Woodward 1907: 249).

The Geological Society resolved finally to dispose of the contents of the museum in 1911 (*Proc. geol. Soc. Lond.*, Session 1910–11, p.cii.1911). It was agreed at a special general meeting held on 19 June of that year that the British material should go to the Museum of Practical Geology, Jermyn Street, and the foreign specimens to the British Museum (Natural History).

When the material was unpacked at the British Museum (Natural History), it was found to be impossible to identify many of the specimens (personal communication, Dr W. Campbell Smith, who was Assistant Keeper in the Department of Mineralogy in 1911.) The material, which bore no means of identification, was in due course thrown away in accordance with the Geological Society resolution 4 (*op.cit.supra*). At the British Museum (Natural History) 426 drawers were retained, of which 5 were given to the then Department of Geology (now Department of Palaeontology), and the rest to the Department of Mineralogy. However, a considerable number of documents, also received in 1911 from the Geological Society and clearly related to both extant, and lost specimens, are now in the Mineralogy and Palaeontology Libraries of the British Museum (Natural History). The 'waste book' and some other registers of the Geological Society, are held in the Palaeontology Library, British Museum (Natural History).

Acknowledgements

The author wishes to thank Dr A. C. Bishop, Mr P. G. Embry, Mr R. G. C. Desmond, Dr W. Campbell Smith, Professor T. G. Vallance and Dr A. R. Woolley for considerable help and advice.

References

- Arberry, A. J.** 1967. [First published 1938]. *The India Office Library, a historical sketch*. Commonwealth Office, London. 109pp.
- Bishop, A. C., Jones, V., Moore, D. T. and Woolley, A. R.** 1971. *Catalogue of the Rock Collections in the British Museum (Natural History)*. British Museum (Natural History), London.
- Fletcher, L.** 1904. Department of Minerals. Series B. Rocks. In: *The History of the Collections contained in the Natural History Departments of the British Museum*. Vol. 1. British Museum, London. 2 Vols.
- Grew, N.** 1681. *Catalogue & description of the natural and artificial rarities belonging to the Royal Society and preserved at Gresham Colledge [sic]* Printed by W. Rawlins, London. 384pp. + Appendices and plates.
- Moore, D. T.** 1982. Geological collectors and collections of the India Museum, London, 1801–79. *Archives of Nat. Hist.* **10** (part 3): 399–428.
- Smith, W. Campbell.** 1928. *Catalogue of the Rock Collections in the Mineral Department of the British Museum (Natural History) arranged geographically. Part I. Africa*. British Museum, London.
- 1932. *Catalogue of the Rock Collections in the Mineral Department of the British Museum (Natural History) arranged geographically. Part II. America*. British Museum, London.
- 1969. A History of the first Hundred Years of the Mineral Collection in the British Museum, with particular reference to the work of Charles Konig. *Bull. Br. Mus. Nat. Hist.* (Hist. ser.) **3**: 237–259.
- Smith, W. Campbell and Game, P. M.** 1954. *Catalogue of the Rock Collections in the Mineral Department of the British Museum (Natural History) arranged geographically. Part III. Antarctica and Australasia*. British Museum, London.
- Stern, W. T.** 1981. *The Natural History Museum at South Kensington*. Heinemann, London. 414pp.
- Vallance, T. G. and Moore, D. T.** 1982. Geological aspects of the voyage of H.M.S. *Investigator* in Australian waters, 1801–5. *Bull. Br. Mus. Nat. Hist.* (Hist. ser.) **10**: 1–43.
- Woodward, A. S.** 1904. The Department of Geology. In: *The History of the collections contained in the Natural History Departments of the British Museum*. Vol. 1. The British Museum, London. 2 vols.
- Woodward, H. B.** 1907. *The History of the Geological Society of London*. The Geological Society, London. 336pp.

A provisional catalogue of described rock collections made before 1918; and some other historical collections

An attempt has been made below to list all described rock collections made before 1918. References are included only where it is thought that the circumstances of collection, or the geology/petrology of the collections are referred to. General references to the geology of the area are not included. However, certain early (pre-1820) but undescribed collections are included, as are some later historical collections, because of their intrinsic interest.

Described material at one time in the India Museum, London, is indicated. Also, described material at one time in the collection of the Geological Society of London can be recognized by its present museum number bearing the preface 1911.

Africa

- pre-1816** *South Africa*, Cape Town area, B. Heyne. BM 54991. (India Mus. Coll'n).
South Africa, [Mr] Pohlman. BM 1911,1405.
- 1816** *Zaire*, C. Smith and [?] Tudor. BM 74551–89.
 C. König, 1818. Appendix (vi) 486–8. In: J. K. Tuckey, *Narrative of an Expedition to explore the River Zaire, usually called the Congo, in South Africa in 1816*. John Murray, London. 498pp with appendices.
- 1817** *South Africa*, J. Adam. BM 1911,1402–3.
South Africa, Cape Town area, D. Carmichael. BM 1911,1404.
- 1820** *Sierra Leone and Los Islands*, [?] Nicol and Earl Bathurst. BM 74468–531.
- 1822–3** *Egypt*, J. Burton and G. B. Greenough. BM 1911,1383. For further notes on this collection see Campbell Smith (1928, p5).
- 1824** *Northern and central Africa*, D. Denham, H. Clapperton and W. Oudney. BM 74590–656.
 C. König, 1826. Appendix xxiii 247–61. In: D. Denham, H. Clapperton and W. Oudney, *Narrative of Travels and Discoveries in northern and central Africa in the years 1822, 1823, 1824*. John Murray, London. 269pp.
- circa 1830** *Egypt*, Sir John Gardner Wilkinson F.R.S. BM 13528–88 and BM 74657–742. See also Sinai (Asia).
 J. G. Wilkinson, 1832. Notes on a part of the eastern desert of Upper Egypt. *Jl R. geogr. Soc.* 2: 28–60.
 — 1835. *Topography of Thebes and general view of Egypt, ... from Sooez [sic] to Berenice*. John Murray, London. 595pp.
 — 1843. *Modern Egypt and Thebes: ...* John Murray, London. 2 vols.
- 1840** *Egypt*, Lt T. J. Newbold H.E.I.C. Madras army. BM 1911,1386.
 T. J. Newbold 1842 [Egyptian] Specimens offered to the Asiatic Society of Bengal. *J. Asiat. Soc. Beng.* 11: 1131–5.
 — 1842. On the geology of Egypt. *Q. Jl geol. Soc. Lond.* 4: 324–49.
- circa 1843** *South Africa*, A. G. Bain. BM 1911,1440.
 A. G. Bain, 1845. On the discovery of the fossil remains of *Bidental* and other reptiles in South Africa. *Trans. geol. Soc. Lond.* 7: 53–9.
- before 1855** *Lower Egypt*, L. Horner. BM 1911,1378–9.
 L. Horner. 1855. An account of some recent researches near Cairo, undertaken with the view of throwing light upon the geological history of the alluvial land of Egypt. *Phil. Trans. R. Soc.* 145: 105–38.

- South Africa*, R. N. Rubidge. BM 1911,1398.
R. N. Rubidge, 1857. On the copper mines of Namaqualand. *Q. Jl geol. Soc. Lond.* **13**: 233–9.
- South Africa*, P. C. Sutherland. BM 1911,1422.
P. C. Sutherland, 1855. Notes on the geology of Natal, South Africa. *Q. Jl geol. Soc. Lond.* **11**: 465–8.
- 1858** *South Africa*, R. N. Rubidge. BM 1911,1399.
R. N. Rubidge, 1859. On some points in the geology of South Africa. *Q. Jl geol. Soc. Lond.* **15**: 195–8.
- before 1864** *Egypt*, Dr A. L. Adams, Surgeon 22nd Regiment [of Foot]. BM 1911,1377.
A. L. Adams, 1864. Notes on the geology of a portion of the Nile valley north of the second cataract in Nubia, taken chiefly with the view of inducing further search for fluviatile shells at high levels. *Q. Jl geol. Soc. Lond.* **20**: 6–19.
- before 1867** *Upper Egypt*, Sir John Clarke Hawkshaw. BM 1911,1376.
J. C. Hawkshaw, 1867. Geological description of the first cataract, upper Egypt. *Q. Jl geol. Soc. Lond.* **23**: 115–9.
- 1867–8** *Ethiopia*, W. T. Blandford, during the 1867–8 Abyssinian war. BM 43118–84.
W. T. Blandford, 1870. *Observations on the geology and zoology of Abyssinia*, ... Macmillan & Co., London. 487pp.
— 1869. On the geology of a portion of Abyssinia, ... *Q. Jl geol. Soc. Lond.* **25**: 401–6.
G. T. Prior, 1899. Riebeckite in trachytic rocks from Abyssinia. *Mineralog. Mag.* **12**: 92–5.
Ethiopia, Dr W. Schimper. BM 42917–3006.
A. Sadebeck, 1869. Geonostische Skizze der Umgegend von Axum und Adoa in Tigre. *Z. Ges. Erdk. Berl.* **4**: 347–52.
G. T. Prior, 1900. Aegirine and riebeckite anorthoclase rocks related to grorudite-tinguaite series from the neighbourhood of Adowa and Axum, Abyssinia. *Mineralog. Mag.* **12**: 255–73.
- 1868** *Sinai, Egypt and Jordan*,—see Asia.
- before 1871** *South Africa*, J. Shaw. BM 47246–82 and 47284–6.
J. Shaw, 1871. On the geology of the diamond fields of South Africa. *Q. Jl geol. Soc. Lond.* **28**: 21–7.
- 1871** *South Africa*, W. G. Atherstone. BM 1911,1411.
W. G. Atherstone, 1896. Kimberley and its diamonds. *Trans. geol. Soc. S. Afr.* **1**: 76–87.
South Africa, T. R. Jones. BM 1911,1409.
T. R. Jones, 1871. Notes on some fossils from the Devonian rocks of the Mitzenberg Flats, Cape Colony. *Q. Jl geol. Soc. Lond.* **28**: 28–30.
South Africa, G. W. Stow. BM 1911,1392 and 1395.
G. W. Stow, 1871. On some points in South African geology. *Q. Jl geol. Soc. Lond.* **27**: 523–48.
— 1871. On the diamond gravels of the Vaal River, South Africa. *Q. Jl geol. Soc. Lond.* **28**: 3–17.
- before 1874** *South Africa*, G. W. Stow. BM 1911,1393.
G. W. Stow, 1874. Geological notes on Griqualand West. *Q. Jl geol. Soc. Lond.* **30**: 581–680.
- 1885** *Egypt*, borings in the Nile delta. BM 82819–93, and 1905,313.
J. W. Judd, 1885. Report on a series of specimens of the deposits of the Nile delta, obtained by recent boring operations. *Proc. R. Soc.* **39**: 213–27.

— 1897. Second report on a series of specimens of the deposits of the Nile delta, obtained by boring operations undertaken by the Royal Society. *Proc. R. Soc.* **61**: 32–40.

— 1897. Second report of a series of specimens of the deposits of the Nile delta, obtained by boring operations undertaken by the Royal Society. *Nature, Lond.* **55**: 548–9.

Egypt, Aswan, Sir John William Dawson. BM 1911,1375.

J. W. Dawson, 1886. Note on the geological relation of rocks from Assouan [Sic] and its neighbourhood. *Geol. Mag. n.s.*, dec 3, **3**: 101–3.

T. G. Bonney, 1886. Note on the microscopic structure of some rocks from the neighbourhood of Assouan, collected by Sir J. W. Dawson [Sic] *Geol. Mag. n.s.* dec 3, **3**: 103–7.

Tanzania, H. H. Johnston (later Sir Henry Hamilton Johnston). BM 62142.

T. G. Bonney, 328–9 In H. H. Johnston, 1886. *The Kilima-njaro Expedition*. Kegan Paul, Trench & Co., London. 572pp.

— 1886. Report on the rocks collected by H. H. Johnston Esq., from the upper part of the Kilima-njaro massif. In *Rep. 55th meeting Br. Ass. Advnt. Sci. (Aberdeen) 1885*. 682–5.

L. Fletcher and H. A. Miers, 1887. Supplementary note on feldspar from Kilima-njaro. *Mineralog. Mag.* **7**: 131–2.

H. A. Miers, 1886. Orthoclase from Kilima-njaro, and adularia from Switzerland. *Mineralog. Mag.* **7**: 10–11.

1888

Somalia, S. King and T. Rupert Jones. BM 66440–501.

C. A. Raisin, 1888. On some rock specimens from Somali Land. *Geol. Mag. n.s.* dec 3, **4**: 414–8.

Socotra, Col M. Gosset. BM 66501–23.

C. A. Raisin, 1888. On some rock specimens from Socotra. *Geol. Mag. n.s.* dec 3, **5**: 504–7.

before 1889

Madagascar, Rev J. Wills. BM 65766–844.

G. T. Prior, 1901. Melilite basalt from Amparafaravola, Madagascar. *Mineralog. Mag.* **13**: 89–90.

Egypt, G. F. S. Elliot. BM 81159–297.

C. A. Raisin, 1893. Contributions to the geology of Africa, 1. Rock specimens from Upper Egypt. *Geol. Mag. n.s.* dec 3, **10**: 436–40.

1892

Kenya and Uganda, C. W. Hobley and J. W. Gregory. BM 86853, 84757–8 and 1921,536.

C. W. Hobley, 1895. Upon a visit to Tsavo and the Taita Highlands. *Geogr. J.* **5**: 545–61.

J. W. Gregory, 1896. *The Great Rift Valley*. John Murray, London. 422pp.

— 1900. Contributions to the geology of British East Africa. Part II. The Geology of Mount Kenya. *Q. Jl geol. Soc. Lond.* **56**: 205–22.

— 1900. Contributions to the geology of British East Africa. Part III. The nepheline-syenite and camptonite dykes intrusive in the Coast Series. *Q. Jl geol. Soc. Lond.* **56**: 223–9.

— 1921. *The Rift valleys and geology of East Africa*. Seeley, London. 479pp.

G. T. Prior, 1903. Contributions to the petrology of British East Africa, etc. *Mineralog. Mag.* **13**: 228–63.

Sierra Leone, G. F. S. Elliot. BM 81298–400.

G. F. S. Elliot & C. A. Raisin, 1893. Reports on botany and geology. *Colon. Rep. misc. Ser. 3. Sierra Leone*: 61–78.

C. A. Raisin, 1893. Contributions to the geology of Africa, 2. Specimens from West Africa (Sierra Leone). *Geol. Mag. n.s.* dec 3, **10**: 440–1.

- 1894** *Tanzania, Kenya, Zambia and Ruwenzori, Uganda*, G. F. S. Elliot and J. W. Gregory. BM 84751; and M. Fergusson, BM 85216(1-4).
G. F. S. Elliot & J. W. Gregory, 1895. The geology of Mount Ruwenzori and some adjoining regions of equatorial Africa. *Q. Jl geol. Soc. Lond.* **51**: 669-80.
G. F. S. Elliot, 1896. *A naturalist in mid Africa, being an account of a journey to the mountains of the moon and Tanganyika*. A. D. Innes & Co., London. 413pp.
M. Fergusson, 1901. Geological notes from Tanganyika northwards. *Geol. Mag.* n.s. dec 4, **8**: 362-70.
G. T. Prior, 1903. Contributions to the petrology of British East Africa etc. *Mineralog. Mag.* **13**: 228-63.
A. Lacroix, 1923. Comparaison de quelques régions éruptives avec celles de Madagascar. *Mineralogie de Madagascar*. **3**: 227-94. Augustin Challamel, Paris. 3 vols.
- before 1896** *Somalia*, E. Lort-Phillips and others. BM 85814.
J. W. Gregory, 1896. Notes on the geology of Somali-land, based on collections made by Mrs E. Lort-Phillips, Miss Edith Cole and Mr G. P. V. Aylmer. *Geol. Mag.* n.s. dec 4, **3**: 289-94.
G. P. V. Aylmer, 1898. [Part II of] Two recent journeys in northern Somaliland. *Geogr. J.* **11**: 34-48.
- 1897** *Transvaal*, South Africa, F. H. Hatch. BM 83684-799.
F. H. Hatch, 1898. A geological survey of the Witwatersrand and other districts in the Southern Transvaal. *Q. Jl geol. Soc. Lond.* **54**: 73-100.
- 1898** *Ethiopia*, R. Koettlitz. BM 1920,520.
R. Koettlitz, 1900. A journey through Abyssinia to the Nile. Notes on geology and anthropology. *Geogr. J.* **15**: 264-72.
C. A. Raisin, 1903. Petrological notes on rocks from south Abyssinia, collected by Dr Reginald Koettlitz. *Q. Jl geol. Soc. Lond.* **59**: 292-306.
Swaziland, T. R. Jones. BM 84243.
T. R. Jones, 1899. Notes on the geology of West Swaziland, South Africa. *Geol. Mag.* n.s. dec 4, **6**: 105-111.
- pre-1899** *Socotra*, H. O. Forbes and W. R. Ogilvie Grant. BM 84752.
J. W. Gregory, 1899. Notes on the geology of Socotra and Abd-el-Kuri. *Geol. Mag.* n.s., dec. 4. **6**: 529-33.
- 1899-1900** *South Africa*, Natal. BM 1908,436.
W. Anderson, 1901. *First report of the Geological Survey of Natal and Zululand*. Pietermaritzburg.
— 1904. *Second report of the Geological Survey of Natal and Zululand*. London.
— 1907. *Third and final report of the Geological Survey of Natal and Zululand*. London.
G. T. Prior, 1910. Petrological notes on the dolerites and rhyolites of Natal and Zululand. *Ann. Natal. Mus.* **2**: 141-57.
Madagascar, A. Lacroix. BM 1912,432. A. Lacroix, 1902. Matériaux pour la mineralogie de Madagascar. Les roches alcalines caractérisant la Province pétrographique d'Ampasindava. *Nouv. Archs Mus. Hist. Nat. Paris. Serie 4*, (4): 1-214.
Sudan, Capt S. Flower. BM 85112-4.
G. T. Prior, 1903. Contributions to the petrology of British East Africa etc. *Mineralog. Mag.* **13**: 228-63.
- 1902** *Uganda*, Sir Henry Hamilton Johnston. BM 85753.
L. Fletcher and G. T. Prior. *Notes on the collections of rocks and mineral specimens from the Uganda Protectorate made by Sir Harry [sic] Johnston, Messrs George Wilson, Racey, Wm. Grant, C. W. Hobley, F. W. Isaac and others.* **1**: 304-12. In:

- H. H. Johnston, 1902. *The Uganda Protectorate*. Hutchison & Co., London. 2 vols.
- G. T. Prior, 1903. Contribution to the petrology of British East Africa etc. *Mineralog. Mag.* **13**: 228–63.
- Zimbabwe, A. J. C. Molyneux. BM 86803–5.
- A. J. C. Molyneux, 1903. The sedimentary deposits of Southern Rhodesia. *Q. Jl geol. Soc. Lond.* **59**: 266–85.
- 1903** Kenya, M. Alluaud. BM 1906,63.
- A. Lacroix, 1923. Comparaison de quelques régions éruptives avec celles de Madagascar. *Minéralogie de Madagascar* **3**: 227–94. Augustin Challamel, Paris. 3 vols.
- G. T. Prior, 1903. Contributions to the petrology of British East Africa, etc. *Mineralog. Mag.* **13**: 228–63.
- pre-1904** Somalia, Major R. G. Edwards Leckie. BM 1917, 40–43.
- These specimens are unfossiliferous limestones but the corresponding palaeontological collections are described in:
- R. B. Newton, 1905. The Tertiary fossils of Somaliland, as represented in the British Museum (Natural History). *Q. Jl geol. Soc. Lond.* **61**: 155–80.
- 1909** Malawi, A. R. Andrew. BM 1911,331.
- A. R. Andrew & T. E. G. Bailey, 1910. The geology of Nyasaland. *Q. Jl geol. Soc. Lond.* **66**: 189–237.
- South Africa, J. Noth. BM 1910,724.
- J. Noth, 1912. Beitrag zur Kenntnis des Petroleumvorkommens in Orange-River-Freistaat in Süd-Afrika. *Földt. Közl.* **42**: 942–7.
- South Africa, F. H. Hatch. BM 1926,585.
- F. H. Hatch, 1909. *A catalogue of a collection of rocks and minerals from Natal and Zululand, arranged stratigraphically*. Natal Government Museum, Pietermaritzburg. 71pp.
- 1910–11** Nigeria, P. A. Talbot. BM 1912,443.
- W. Campbell Smith, 1912. In: P. A. Talbot, *The shadow of the bush*. William Heineman, London. 480pp.
- 1911** Kenya, J. Parkinson. BM 1913,397.
- J. Parkinson, 1913. On a group of metamorphosed sediments situated between Machakos and Lake Magadi in British East Africa. *Q. Jl geol. Soc. Lond.* **69**: 534–9.
- Kenya, F. Oswald. ('The Felix Oswald Expedition'). BM 1922,113.
- F. Oswald, 1914. The Miocene beds of the Victoria Nyanza and the geology of the country between the Lake and the Kisii Highlands. *Q. Jl geol. Soc. Lond.* **70**: 128–62.
- Mozambique, A. Holmes, E. J. Wayland and D. A. Wray. BM 1919,295.
- A. Holmes & D. A. Wray, 1912. Outlines of the geology of Mozambique [sic]. *Geol. Mag.* n.s. dec 5. **9**: 412–7.
- 1914. The lateritic deposits of Mozambique. *Geol. Mag.* n.s. dec 6. **1**: 529–37.
- 1917. The tertiary volcanic rocks of the district of Mozambique. *Q. Jl geol. Soc. Lond.* **72**: 222–79.
- 1919. The Pre-Cambrian and associated rocks of the district of Mozambique. *Q. Jl geol. Soc. Lond.* **74**: 31–98.
- pre-1912** Sudan, Kordofan, C. G. Seligman. BM 1912,578–9.
- W. Campbell Smith, 1920. Volcanic rocks in northern Kordofan, Sudan. *Nature, Lond.* **104**: 693.

South Africa, A. Cowley. BM 1912,358.

W. Campbell Smith, 1912. A spherulitic dolerite from Vryheid, Natal. *Ann. Natal Mus.* 2: 381–91.

South Africa, Cape Province, R. H. Rastall. BM 1912,532.

R. H. Rastall, 1911. The geology of the districts of Worcester, Robertson and Ashton (Cape Colony). *Q. Jl geol. Soc. Lond.* 67: 701–33.

North America (inc. Caribbean & Greenland)

- pre-1812** *Canada*, Manitoba, A. Edwards and [Mr] Holdsworth. BM 1911,1437.
Lord Selkirk, 1821. Notes concerning the geology of part of North America lying to the west of Hudson's Bay. *Trans. geol. Soc. Lond.* 5 (1st series): 598–608.
- 1812** *Barbados*, an unknown person, and presumed from the eruption of Soufrière (St Vincent). For notes on other 1812 volcanic dust collections see Campbell Smith (1932: 115, 118). BM 67661 and 67567.
Antigua, N. Nugent. BM 1911,1486–7.
N. Nugent, 1821. A sketch of the geology of the island of Antigua. *Trans. geol. Soc. Lond.* 5 (1st series): 459–75.
- 1813** *Greenland*, Disko Island, C. L. Metzler (afterwards Sir Charles Ludwig Giesecke). BM 1911,1594.
C. L. Giesecke, 1823. On the mineralogy of Disko Island. *Trans. R. Soc. Edinb.* 9: 263–72.
- 1816** *U.S.A.*, Massachusetts, J. W. Webster. BM 1911,1447.
J. W. Webster, 1825. Lettre adressée à M. Boué sur la constitution géologique des environs de Boston. *Annls. Sci. nat.* 4: 253–6.
— 1825. Remarks on the geology of Boston and its vicinity. *Boston Journ. Phil.* 2: 277–92.
Canada, Quebec, Lord Selkirk. BM 1911,1436. Probably an undescribed collection, see Campbell Smith (1932, p.64).
- 1818** *Canada*, Baffin Bay and Greenland, Capt J. Ross R.N. (later Sir John Ross). BM 1911,1596.
J. MacCulloch, 1819. Appendix No 3 lxxv–lxxxii. In: J. Ross, *A Voyage of discovery made under the orders of the Admiralty in His Majesty's ships Isabella and Alexander*. John Murray, London. 252pp.
U.S.A., the Eastern States, W. Maclure. BM 1911,1445.
W. Maclure, 1818. Observations on the geology of the United States of North America ... *Trans. Am. Phil. Soc. n.s.* 1: 1–91.
- 1819–21** *Canada*, Sir William Edward Parry on his first Arctic Expedition 1819–20. BM 75896–918, 76546 and 1911,1597.
C. König, 1821. Appendix ccxlvii–cclvii. Observations on the rock specimens. In: W. E. Parry, *Journal of a voyage for the discovery of the northwest passage, from the Atlantic to the Pacific; performed in the years 1819–20, in His Majesty's ships Hecla and Griper*, ... John Murray, London. 310pp.
C. König, 1823. An account of the rock specimens collected by Captain Parry during the northern voyage of discovery, performed in the years 1819–1820. *Q. Jl Lit. Soc. Arts Lond.* 15: 11–22.
Canada, (but an overland expedition unlike the above), Sir John Richardson on Franklin's first expedition of 1819–22. BM 1914,1111 (part).
J. Richardson, 1823. Appendix 1, Geognostical Observations 497–538. In: J. Franklin, [sic, only the first edition has the appendices] *Narrative of a journey to*

the shores of the polar sea in the years 1819, 20, 21 and 22. John Murray, London. 786pp.

- 1822** *Canada, Newfoundland, Lady Hamilton.* BM 1911,1439.
- 1823** *Canada, Sir William Edward Parry on his second Arctic Expedition.* BM 80004-12, 80014-20 and 1911,1598.
 W. E. Parry, 1824. *Journal of a second voyage for the discovery of the Northwest passage from the Atlantic to the Pacific performed in the years 1821-3 in His Majesty's ships Fury and Hecla under the orders of Captain William Edward Parry R.N. F.R.S.* John Murray, London. 558pp.
 See also a note concerning this collection in Campbell Smith (1932: 59).
- 1825** *Labrador and Newfoundland, Lt R. Morrison R.N.* BM 1911,1438.
- 1825-7** *Canada, Ontario, Manitoba and Saskatchewan, Dr J. Richardson, on Sir John Franklin's second expedition overland to the polar sea.* BM 1911,1427 and 1914,1111 (part).
 J. Richardson, 1828. Appendix 1. pp (i-lviii). In: J. Franklin. *Narrative of a second expedition overland to the polar sea, in the years 1825, 1826 and 1827.* John Murray, London. 320pp.
 There are further notes on this collection in Campbell Smith (1932: 66, 70). The reference below is conceivably also applicable to this collection.
 J. Richardson, 1828. Topographical and geological notices, from information collected during the expedition to the northwest coast of America under the command of Captain Franklin. *Proc. geol. Soc. Lond.* 1: 66-9.
- 1826** *Canada, Ontario, Lt H. W. Bayfield, R.N.* BM 74845-902.
 H. W. Bayfield, 1829. Outlines of the geology of Lake Superior. *Trans. lit. hist. Soc. Quebec.* 1: 1-43.
 — 1845. On the junction of the transition and primary rocks of Canada and Labrador. *Q. Jl geol. Soc. Lond.* 1: 450-9.
 U.S.A., Massachusetts, D. Hussack. BM 1911,1449.
- 1827** *California and Alaska, Lt Belcher R.N.* See under Oceanic Islands.
- 1828** U.S.A., Connecticut, Massachusetts, Rhode Island, U.S.A., Capt B. Hall, R.N. BM 1911,1446.
 B. Hall, 1829. *Travels in North America.* Cadell & Co. Edinburgh. 3 vols.
- 1833** *Canada, Quebec, Capt H. W. Bayfield, R.N.* BM 1911,1441.
 H. W. Bayfield, 1837. Notes on the geology of the north coast of the St Lawrence. *Trans. geol. Soc. Lond.* 5 (2nd series): 89-102.
 Mexico, J. Burkart. BM 1911,1461.
 J. Burkart, 1836. *Aufenthalt und Reisen in Mexico in den Jahren 1825 bis 1834.* E. Schweizerbarts Verlagshandlung, Stuttgart. 230pp.
- before 1836** *Canada, Nova Scotia, A. Gesner.* BM 1911,1664.
 A. Gesner, 1836. *Remarks on the geology and mineralogy of Nova Scotia.* Gossip and Coade, Halifax. 272pp.
- 1837** *Canada, New Brunswick, Lt Bowen, R.N.* BM 1008, 1011-12 and 1033.
- 1841** *Canada, New Brunswick, W. J. Henwood.* BM 1911,1442.
 W. J. Henwood, 1842. Note to accompany a series of specimens from Chaleur Bay and the river Ristigouche in New Brunswick. *Proc. geol. Soc. Lond.* 3: 454-6.
- before 1845** *Barbados, W.I., Sir Robert Hermann Schomburgk.* BM 18864-5.
 R. H. Schomburgk, 1848. *The history of Barbados; Comprising a geographical and statistical description of the island; ... and an account of its geology and natural productions.* Longman, Brown, Green and Longman, London. 722pp.

- before 1851** *Dominican Republic (Hispaniola)*, Sir Robert Hermann Schomburgk. BM 1911,1491.
R. H. Schomburgk, 1853. The peninsula and bay of Samaña, in the Dominican Republic. *Jl R. geogr. Soc.* **23**: 275–9.
- 1851** *Arctic Canada*, Capt H. T. Austin R.N. on an arctic search [for Sir John Franklin] expedition in HMSV *Pioneer*. BM 75822–70, 75853–73 and 80022–30.
J. W. Slater, 1853. On Arctic Silurian fossils *Q. Jl geol. Soc. Lond.* **9**: 313–7.
For notes on this collection, see Campbell Smith (1932: 60).
- 1852** *Arctic Canada*, Wellington Channel, Franklin, Surgeon R. M'Cormick R.N. BM 66343–74 and 1921,398 (7–11).
R. M'Cormick, 1854. *Dr M'Cormick's expedition up the Wellington Channel in the year 1852, commanding HM boat Forlorn Hope in search of Sir John Franklin*. HMSO, London. 39pp.
— 1884. *Voyages of discovery in the arctic and antarctic seas, and round the world; being personal narratives of attempts to reach the north and south poles; ...* Sampson Low, Marston, Searle and Rivington, London. 2 vols.
M'Cormick's specimens are also mentioned in the catalogue below, together with other material connected with arctic exploration.
W. Parker Snow, 1858. *A Catalogue of the arctic collection in the British Museum; with a list of the arctic relics in the United Services Museum and the Painted Hall, Greenwich*. Joseph Masters, London. 32pp.
- 1853** *Canada*, Devon Island, Capt E. A. Inglefield R.N. BM 80000–1 and 67362.
R. M'Clure, 1854. *The arctic dispatches, containing an account of the discovery of the North-West Passage*. J. D. Potter, London. 111pp.
- before 1856** *Trinidad*, H. G. Bowen. BM 1911,1471.
H. G. Bowen, 1856. On the geology of Trinidad. *Q. Jl geol. Soc. Lond.* **12**: 389.
- 1859–61** *Canada/U.S.A.* Boundary Commission from British Columbia and Washington. BM 1911,1435.
H. Bauerman, 1885. Report on the geology of the country near the forty-ninth parallel of north latitude, west of the Rocky Mountains. *Rep. geol. Surv. Can.* 1882–4. Rep.B.: 1–42.
- before 1862** *Jamaica*, J. G. Sawkins. BM 1911,1497.
J. G. Sawkins, 1863. On the association of granite with the Tertiary strata near Kingston, Jamaica. *Q. Jl geol. Soc. Lond.* **19**: 35.
- before 1864** *Canada*, Queen Charlotte Islands, F. Poole. BM 1911,1428–9.
F. Poole, 1872. *Queen Charlotte Island, a narrative of discovery and adventure in the north Pacific*. Hurst & Blackett, London. 347pp.
- 1870** *Trinidad*, R. J. L. Guppy. BM 1911,1474–7.
R. J. L. Guppy, 1870. On the discovery of organic remains in the Caribbean Series of Trinidad. *Q. Jl geol. Soc. Lond.* **26**: 413–5.
— 1877. On the physical geography and fossils of the older rocks of Trinidad. *Proc. scient. Ass. Trinidad* **2**: 103–9.
— 1921. On the physical geography and fossils of the older rocks of Trinidad. *Bull. Am. Palaeont.* **35**: 76–88.
- 1873–6** *St. Thomas*, West Indies. *Challenger* collection, see under Oceans.
- 1874** *Newfoundland*, J. Milne. BM 74743–83.
J. Milne, 1874. Notes on the physical features and mineralogy of Newfoundland. *Q. Jl geol. Soc. Lond.* **30**: 722–45.
— 1877. On the rocks of Newfoundland. With notes by Alexander Murray. *Geol. Mag.* n.s. dec 2. **4**: 251–62.

- 1875-6** *Northern Greenland*, on the expedition led by Sir George Strong Nares. BM 79865, 79789, 79572-893 and 1911,1602.
C. E. De Rance, and H. W. Feilden, 1879. On the geological structure of the coast of Grinnel land and Hall Basin, visited by the British Arctic Expedition of 1875-6. In: G. S. Nares, *Narrative of a voyage to the polar sea during 1875-6 in H.M. Ships Alert and Discovery*. 2: 327-45. Sampson, Low, Marston, Searle & Rivington, London. 2 vols.
For details of a collection from Greenland attributed to A. E. Nordenskiöld, see Campbell Smith (1932: 55).
- 1882** *Costa Rica*, G. Attwood. BM 1911,1468.
G. Attwood, 1882. On the geology of a part of Costa Rica, with a report on some of the rock specimens by W. H. Hudleston. *Q. Jl geol. Soc. Lond.* **38**: 328-40.
- 1902** *St. Vincent*, Sir John Smith Flett. BM 1911,162,165 and 168-9.
J. S. Flett, 1908. Petrological notes on the products of the eruptions of May 1902 at the Soufrière in St. Vincent. *Phil. Trans. R. Soc.* **208A**: 305-32.
For details of other collections (often undescribed) of ash falls from St. Vincent, see Campbell Smith (1932: 116).
- 1910-11** *Costa Rica*, J. Romanes. BM 1912,533-4.
J. Romanes, 1912. Geology of a part of Costa Rica. *Q. Jl geol. Soc. Lond.* **68**: 103-39.
— 1912. Geological notes on the peninsula of Nicoya, Costa Rica. *Geol. Mag.* n.s. dec 5, **9**: 258-65.

South America

- 1799-1804** *Venezuela*, Baron Fredrich Heinrich Alexander Humboldt and A. J. A. Bonpland. BM 74532-550 and 76536-540.
F. H. A. Humboldt, 1801. Esquisse (1) d'un tableau géologique de l'Amerique meridionale. *J. Phys. Chim. Hist. nat.* **53**: 30-60.
F. H. A. Humboldt and A. J. A. Bonpland, 1818. *Personal narrative of travels to the Equinoctial regions of the New Continent during the years 1799-1804*. Translated by H. M. Williams. Longmans, Hurst, Rees, Orme & Brown, London. 5 vols.
- 1804** *Brazil*, J. Mawe. BM 1911,1532.
J. Mawe, 1812. *Travels in the interior of Brazil, particularly in the gold and diamond districts of that country, including a voyage to the Rio de la Plata, and an historical sketch of the revolution of Buenes Ayres*. Longmans, London. 366pp.
- 1819-21** *Brazil*, A. Caldcleugh. BM 1911,1529.
A. Caldcleugh, 1825. *Travels in South America during the years 1819-21*. John Murray, London. 2 vols.
- 1820-22** *Chile*, Capt B. Hall R.N. BM 1911,1515.
B. Hall, 1824. *Extracts from a journal written on the coasts of Chile, Peru and Mexico, in the years 1820, 1821 and 1822*. Archibald Constable, Edinburgh. 2 vols.
Panama, Capt B. Hall R.N. BM 1911,1469.
B. Hall, 1824. *Op. cit. supra*.
- 1825** *Argentina and Chile*, H. B. Pentland. BM 1911,1513.
- 1826-30** *Straits of Magellan*, Chile and Argentina, Capt P. P. King R.N., Capt R. Fitzroy R.N. and others. BM 75208-14, 75219, 75245-50. 1911,1536 and 1911,1537.
P. P. King, 1832. Some observations upon the geography of the southern extremity of South America, Tierra del Fuego and the straits of Magellan; made

during the late survey of these coasts in His Majesty's ships *Adventure* and *Beagle*, between the years 1826 and 1830. *Jl R. geogr. Soc.* **1**: 155–75.

Notes relating to these collections can be found in Campbell Smith (1932: 139–40).

- 1827** *Peru*, J. B. Pentland. BM 1911,1511–12.
J. B. Pentland, 1835. On the general outline and physical configuration of the Bolivian Andes; with observations on the line of perpetual snow upon the Andes, between 15° and 20° south latitude. *Jl R. geogr. Soc.* **5**: 70–89.
Chile, Antuco, E. F. Pöppig. BM 1911,1519.
E. F. Poeppig, 1835. *Reise in Chile, Peru und auf dem Amozonenstrome während der Jahre 1827–1832*. Friedrich Fleischer. J. C. Hinrichssche Buchhandlung, Leipzig. 2 vols.
- 1833** *Argentina, Bolivia and Chile*, Sir Woodbine Parish. BM 1911,1516.
W. Parish, 1839. *Buenos Ayres and the provinces of the Rio do la Plata*. John Murray, London. 415pp.
- 1833–4** *Argentina*, Buenos Ayres, C. Darwin. BM 1911,1521.
C. Darwin, 1863. On the thickness of the Pampean Formations near Buenos Ayres. *Q. Jl Geol. Soc. Lond.* **19**: 68–71.
- 1834** *Peru*, M. E. de Rivero. BM 1911,1507.
M. E. de Rivero, 1832. Mémoire sur les Mines d'Argent de Pusco au Pérou. *Ann. des Mines*. (Serie 3), **2**: 169–98.
- 1836** *Guyana*, Sir Robert Hermann Schomburgk. BM 1911,1505.
R. H. Schomburgk, 1837. Diary of an ascent of the river Corentyn in British Guayana [sic], in October 1836. *Jl R. geogr. Soc.* **7**: 285–301.
— 1837. Diary of an ascent of the river Berbice in British Guayana [sic], in 1836–7. *Jl R. geogr. Soc.* **7**: 302–50.
— 1845. Remarks on the geology of British Guiana. *Q. Jl geol. Soc. Lond.* **1**: 298–300.
- 1837–8** *Bolivia and Peru*, J. B. Pentland. BM 1911,1506.
J. B. Pentland, 1838. Extraits de plusieurs lettres de M. Pentland à M. Arago, datées de la Paz (Republic de Bolivia). *C.r. hebd. Séanc. Acad. Sci. Paris*, **6**: 831.
- 1842** *Chile*, islands near Cape Horn, R. M'Cormick and J. D. Hooker (later Sir Joseph Dalton Hooker) while on Sir James Clarke Ross's expedition of 1839–43. BM 75220–44, 75392–430, 75632–48 and 75709–11. See also under Antarctica.
R. M'Cormick, 1847. Appendix IV. Geological remarks on the Antarctic continent and southern islands. In: J. C. Ross, *A Voyage of discovery and research ...* [Op. Cit. see Antarctica].
— 1884. *Voyages of discovery in the arctic ...* [Op. Cit. see Antarctica].
- 1855** *Chile*, W. Bollaert. BM 1911,1517.
W. Bollaert, 1855. Observations on the coal formation in Chile, S. America. *Jl R. geogr. Soc.* **25**: 172–5.
- before 1863** *Argentina*, Major F. I. Rickard. BM 1911,1520.
F. I. Rickard, 1863. *A mining journey across the great Andes, with explorations in the silver mining districts of San Juan; and Mendoza, and a journey across the Pampas to Buenos Ayres*. Smith Elder & Co. London. 314pp.
- before 1869** *Venezuela*, C. Le Neve Foster. BM 1911,1503.
C. Le Neve Foster, 1869. On the Caratal gold-field. *Q. Jl Geol. Soc. Lond.* **25**: 336–43.

- Venezuela, R. Tate. BM 1911,1501.
R. Tate, 1869. Notes on the geology of Guyana, in Venezuela. *Q. Jl geol. Soc. Lond.* **25**: 343–50.
- before 1874** *Ecuador*, T. Wolf. BM 54509–27.
T. Wolf, 1874. Geonostische Mitteilungen aus Ecuador. I. Über das Vorkommen von Quarz-Andesit im Hochland von Quito. *Neues Jb. Miner. Geol. Paläont Stuttgart*. 377–85.
- 1875** *Brazil*, Pernambuco, [Recife] Sir John Clarke Hawkshaw. BM 1911,1523.
J. C. Hawkshaw, 1879. Notes on the consolidated beach at Pernambuco. *Q. Jl geol. Soc. Lond.* **35**: 239–44.
- 1879–80** *Ecuador*, E. Whymper. BM 1913,353.
E. Whymper, 1892. *Travels amongst the great Andes of the equator*. John Murray, London. 456pp.
T. G. Bonney, 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by E. Whymper. F.R.G.S. No. 1 Pichincha. *Proc. R. Soc.* **36**: 241–8.
— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by Edward Whymper. No. 2 Antisana. *Proc. R. Soc.* **36**: 426–34.
— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador, collected by E. Whymper. No. 3 Cotopaxi and Chimborazo. *Proc. R. Soc.* **37**: 114–30.
— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by E. Whymper. No. 5. Alter, Illiniza, Sincholagua, etc. *Proc. R. Soc.* **37**: 394–410.
- 1893** *Brazil*, Matto Grosso, J. W. Evans. BM 74236–309.
J. W. Evans 1894. The geology of Matto Grosso (particularly the part drained by the upper Paraguay). *Q. Jl geol. Soc. Lond.* **50**: 85–104.
- before 1890** *Brazil*, Serra de Tingua, probably E. Hussak. BM 85670.
E. Hussak, 1890. Ueber Leucit-Pseudokristalle im Phonolith (Tinguait) der Serra de Tingua, Estado Rio de Janeiro, Brazil. *Neues Jb. Miner. Geol. Paläont Stuttgart*. **1**: 166–9.
- before 1894** *Brazil*, Goyaz, E. Hussak. BM 80144.
E. Hussak, 1894. Ueber einer neues Perowskitvorkommen im Verbindung mit Magnetisentein von Catalao, Staat Goyaz, Brasilien. *Neues Jb. Miner. Geol. Paläont Stuttgart* **2**: 297–300.
- 1898** *Chile and Argentina*, E. A. Fitzgerald and S. Vines. BM 84468.
T. G. Bonney, 1899. Notes on specimens collected in the Chilean Andes [sic] by members of Mr Fitzgerald's Expedition. In: E. A. Fitzgerald, *The highest Andes, a record of the first ascent of Acongagua and Tupungato in Argentina, and the exploration of the surrounding valleys*. Methuen, London. 390pp.
Bolivia, Sir William Martin Conway. BM 85422 (1–59), and 85422 (87–101).
T. G. Bonney, 1901. Notes on rocks collected by Sir W. M. Conway [sic] during his expeditions in the Andes. In: W. M. Conway, *The Bolivian Andes*. Harper, London. 403pp.
W. M. Conway, 1899. Explorations in the Bolivian Andes. *Geogr. J.* **14**: 14–34.
- 1906** *Brazil*, J. W. Evans. BM 1907,8.
J. W. Evans, 1906. The rocks of the cataracts of the River Madera and the adjoining portions of the Beni and Mamoré. *Q. Jl geol. Soc. Lond.* **62**: 88–124.

- before 1909** *Bolivia*, La Paz, W. R. Rumbold. BM 1910,138–159.
W. R. Rumbold, 1909. The origin of the Bolivian tin deposits. *Econ. Geol.* 4: 321–64.

Antarctica

- 1839–43** *Antarctica*, on the expedition led by Sir James Clark Ross in HMS *Erebus* and *Terror* (see also Chile, Tasmania, New Zealand, and Kerguelen). BM 66327–42, 66435–7, 66423, 69289–91, 75694, 75700, 66390, 75341–64 and 1911,1634.
J. C. Ross, 1847. *A voyage of discovery and research in the southern and Antartic regions during the years 1839–43*. 1: 213–6. John Murray, London. 2 vols.
R. M'Cormick, 1884. *Voyages of discovery in the arctic and antarctic seas, and round the world; being personal narratives of attempts to reach the north and south poles; ...* Sampson Low, Marston, Searle, and Rivington, London. 2 vols.
G. T. Prior, 1899. Petrographical notes on the rock-specimens collected in Antarctic regions during the voyage of HMS *Erebus* and *Terror* under Sir James Clark Ross in 1839–43. *Mineralog. Mag.* 12: 69–91.
- 1898–1900** *Cape Adare*, the Southern Cross Expedition. BM 85752.
G. T. Prior, 1902. Report on the rock specimens. In: *Report on the collections of natural history made in the Antarctic regions during the voyage of the Southern Cross*. pp321–32. British Museum (Natural History), London. 344pp.
- 1901–4** The *Discovery* Antarctic Expedition.
South Victoria Land. BM 87171 (1–54), (55–83).
Falkland Islands. BM 87171 (867–870).
Little Trinidad Island. BM 87171 (905–953).
Balleny Island. BM 87171 (864) and (902).
Auckland Island. BM 87171 (871–896).
Macquarie Island. BM 87171 (954–968).
W. Colbeck, 1904. The National Antartic Expedition. *Geolgrl. J.* 23: 741–4.
H. T. Ferrar, 1907. Report on the field geology of the region explored during the *Discovery* Antarctic Expedition 1901–4. In: *National Antarctic Expedition 1901–4*. Natural History 1: Geology 1–100. The British Museum, London.
G. T. Prior, 1907. Report on the rock specimens collected during the *Discovery* Antarctic Expedition. 1901–4. *Op. cit. Supra*. Geology 101–40.
- 1907–9** *British Antarctic (Nimrod) Expedition* led by Sir Ernest Shackleton. BM 1910,199, 1911,135 and 1911,223.
W. N. Benson, 1916. Report on the petrology of the dolerites collected by the British Antarctic Expedition 1907–9. In: *British Antarctic Expedition 1907–9. Report on the scientific investigations*. Geology 2: 153–60.
H. I. Jensen, 1916. Report on the petrology of the alkaline rocks of Mount Erebus, Antarctica. *Op. cit. Supra*. Geology 2: 93–128.
E. W. Skeats, 1916. Report on the petrology of some limestones from the Antarctic. *Op. cit. Supra*. Geology 2: 189–200.
J. A. Thomson, 1916. Report on the inclusions of the volcanic rocks of the Ross Archipelago. *Op. cit. Supra*. Geology 2: 129–48.
A. B. Walkom, 1916. Report on the pyroxene granulites collected by the British Antarctic Expedition of 1907–9. *Op. cit. Supra*. Geology 2: 161–8.
W. G. Wollnough. Petrological notes on some of the erratics collected at Cape Royds. *Op. cit. Supra*. Geology 2: 469–86.
- 1910–13** *British Antarctic (Terra Nova) Expedition*. Registered under various numbers BM 1930,222–6, 1930,228–30, 1943,101, 1953,86–93 and 1959,217.

- F. Debenham, 1921. The sandstone, etc. of the McMurdo Sound, Terra Nova Bay, and Beardmore Glacier regions. *British Antarctic (Terra Nova) Expedition, 1910. Natural History Report. Geology 1*: 103–119. British Museum, London.
- W. Campbell Smith, 1921. The plutonic and hypabyssal rocks of South Victoria Land. *Op. cit. Supra. Geology 1*: 167–227.
- 1924. The volcanic rocks of Cape Adare, South Victoria Land. *Op. cit. Supra. Geology 2*: 109–50.
- & R. E. Priestley, 1921. The metamorphic rocks of the Terra Nova Bay region. *Op. cit. Supra. Geology 1*: 145–65.
- D. Stewart, Jr., 1934. The petrology of the Beacon Sandstone of South Victoria Land. *Am. Miner.* **19**: 351–9.
- 1939. Petrography of some South Victoria Land rocks. *Am. Miner.* **24**: 155–61.
- D. T. Moore, 1982. Some background to the Antarctic geological collections of Captain R. F. Scott, R.N. (1868–1912), and Sir Ernest Henry Shackleton (1874–1922). *Archives of nat. hist.* **10**(2): 359–60.
- 1913–14** *South Shetlands, Palmer Archipelago, and Graham Land*, D. Ferguson, (The Salvesen Expedition). BM 1917,49.
- D. Ferguson, 1922. Geological observations in the South Shetlands, the Palmer Archipelago, and Graham Land, Antarctica. *Trans. R. Soc. Edinb.* **53**: 29–55.
- G. W. Tyrrell, 1922. A contribution to the petrology of the South Shetland Islands, the Palmer Archipelago, and the Danco Land coast, Graham Land, Antarctica. *Trans. R. Soc. Edinb.* **53**: 57–79.
- 1928** *Byrd, Antarctic Expedition*. BM 1933,259.
- L. M. Gould, 1935. Structure of the Queen Maud Mountains, Antarctica. *Bull. geol. Soc. Amer.* **46**: 973–83.
- D. Stewart, Jr., 1934. The petrology of the Beacon Sandstone of South Victoria Land. *Am. Miner.* **19**: 351–9.
- 1934. A contribution to Antarctic petrography. *J. Geol.* **42**: 546–50.
- 1934. The petrography of some rocks from South Victoria Land. *Proc. Am. phil. Soc.* **74**: 307–10.
- 1934. The University of Michigan collection of Antarctic rocks and minerals. *Proc. Am. phil. Soc.* **74**: 711–17.
- 1939. Petrography of some South Victoria Land rocks. *Am. Miner.* **24**: 155–61.
- 1929–31** *British, Australian, New Zealand Antarctic Research Expedition*. BM 1967,P7 and 1967,P9–11.
- G. W. Tyrrell, 1937. The petrology of Heard Island. *Rep. B.A.N.Z. Antarct. Res. Exped. Series A*, **2**: 29–56. B.A.N.Z.A.R. Expedition committees, Adelaide.
- 1937. The petrology of Possession Island (Crozet Islands). *Op. cit. Series A*, **2**: 59–68.
- 1934–7** *British Graham Land Expedition*. BM 1942,24.
- 1955–8** *British and Commonwealth Trans. Antarctic Expedition*. BM 1977,P18.
- P. J. Stephenson, 1966. Geology. Theron Mountains, Shackleton Range, and Whichaway Nunataks. *Scient. Rep. trans antarct. Exped. No. 8*. 1–79. Trans-Antarctic Expedition Committee, London.

Asia

- 1801–19** *Java, Indonesia*, T. Horsfield. BM 73162–432 (India Mus. colln).
- T. Horsfield, 1814. On the mineralogy of Java. Essay 1. *Verh. batav. Genoot. Kunst. Wet.* **7**: 141–71.

- 1814. Essay on the geography, mineralogy [sic] and botany of the western portion of the territory of the native princes of Java. Section 1. *Op. cit. Supra* 7: 175–215.
- 1814. Mineralogical remarks. Section III. *Op. cit. Supra* 7: 240–96.
- J. Bastin & D. T. Moore, 1982. The geological researches of Dr Thomas Horsfield in Indonesia, 1801–19. *Bull. Br. Mus. nat. Hist. (Hist. Ser.)* 10(3): 75–115.
- 1812–16** *Java, Indonesia*, Capt B. Hall R.N. BM 1911,1351.
- 1814** *Sri Lanka*, Capt B. Hall R.N. BM 1911,1344.
- South eastern India*, Capt B. Hall R.N. BM 1911,1320.
- Bombay area*, Capt B. Hall R.N. BM 1911,1330.
- before 1815** *India*, F. Buchanan. BM 54984, 72573–89, and 77854–8283 (India Mus. colln).
- C. E. A. W. Oldham. 1926. *Journal of Francis Buchanan kept during the survey of the district of Shahabad in 1812–13*. Superintendent Government Printing, Patna.
- 1930. *Journal of Francis Buchanan kept during the survey of the district of Bhagalpur in 1810–11*. Superintendent Government Printing, Patna.
- 1818** *Korea*, Loochoo Island [Okinowa], and the sea of Japan, Capt B. Hall R.N. BM 1911,1305.
- B. Hall, 1818. Appendix. Geological Memorandum cxxi–cxxx. In: B. Hall *A voyage of discovery to the west coast of Corea [sic] and the Great Loochoo Island*. John Murray, London. 222pp.
- Sumatra, Indonesia*, T. Horsfield. BM 1911,1350.
- J. Bastin & D. T. Moore, 1982. The geological researches of Dr Thomas Horsfield in Indonesia, 1801–19. *Op. cit. Supra* 10(3): 75–115.
- India*, Malabar Coast, B. Babington, H.E.I.C. Madras Civil Service. Communicated by W. Babington. BM 1911,1319.
- B. Babington, 1821. Remarks on the geology of the country between Tellicherry and Madras. *Trans. geol. Soc. Lond.* 5 (1st series): 328–39.
- 1819** *India*, Salette Island and Malabar Coast, S. Babington. H.E.I.C. Bombay Civil Service. BM 1911,1311.
- S. Babington, 1819. On the island of Salsette. *Trans. geol. Soc. Lond.* 5: (1st series) 1–3.
- Southern India*, H. W. Voysey. BM 1911,1324–5, and BM 78284–332. (India. Mus. colln).
- H. W. Voysey, 1825. On the diamond mines of southern India. *Asiat. Reschs* 15: 120–8.
- 1833. Report on the geology of Hyderabad. *J. Asiat. Soc. Beng.* 2: 198–305.
- India*, Calcutta and Cawnpore, J. Adam. BM 1911,1335.
- J. Adam, 1821. On the geology of the banks of the Ganges, from Calcutta to Cawnpore. *Trans. geol. Soc. Lond.* 5 (1st series): 348–52.
- Central India*, Bundelcand and Jubulpore, J. Adam. BM 1911,1334.
- J. Adam, 1842. Memoranda on the geology of Bundelcand and Jubulpore [sic]. *J. Asiatic Soc. Bengal.* n.s. 11: 392–411.
- 1820** *India*, Bhutan Mountains, H. T. Colebrooke. BM 1911,1337.
- H. T. Colebrooke, 1822. On the geology of the north-eastern border of Bengal. *Trans. geol. Soc. Lond.* 1 (2nd series): 132–7.
- Iran*, J. B. Fraser. BM 1911,1361.
- J. B. Fraser, 1825. *Narrative of a journey into Khorasan in the years 1821–1822*. Longmans, Hurst, Orme, Brown & Green, London. 623pp.

- 1821** *Northern India*, A. and P. Gerard. BM 1911,1338.
A. Gerard, 1826. Account of a survey of the valley of the Setlej River in the Himalaya Mountains. *Edin. J. Sci.* 5: 270–88.
— 1827. Account of a survey of the valley of the Setlej River, in the Himalaya Mountains. *Edin. J. Sci.* 6: 28–49.
- 1821–2** *India*, J. B. Fraser. BM 1911,1332.
J. B. Fraser, 1822. Description accompanying a collection of specimens made on a journey from Delhi to Bombay. *Trans. geol. Soc. Lond.* 1 (2nd series): 141–61.
Sumatra, Indonesia, W. Jack. BM 1911,1349.
W. Jack, 1824. On the geology and topography of the island of Sumatra, and some of the adjacent islands. *Trans. geol. soc. Lond.* 1 (2nd series): 397–405.
- 1822** *Malaya, Thailand and Indo-China*, J. Crawford [sic, but in fact Crawfurd] BM 1911,1313.
J. Crawford, 1824. Geological observations made on a voyage from Bengal to Siam and Cochin China. Extracted from a letter to H. T. Colebrooke. *Trans. geol. Soc. Lond.* 1 (2nd series): 406–8.
Also, specimens from G. Finlayson. BM 55086.
G. Finlayson, 1826. [sic, but written by Sir Stamford Raffles]. *The mission to Siam, and Hué the capital of Cochin China, in the years 1821–2. From the journal of the late George Finlayson, Esq., ...* John Murray, London. 427pp.
- 1825–7** *Kamchatka*, U.S.S.R. See under Oceans.
- 1827** *Burma*, J. Crawfurd [sic]. BM 1911,1314.
W. Buckland, 1829. Geological account of a series of animal and vegetable remains and of rocks, collected by J. Crawfurd, Esq on a voyage up the Irawadi to Ava, in 1826 and 1827. *Trans. geol. Soc. Lond.* 2 (2nd series): 377–92.
- 1828** *Central India*, Major J. Franklin H.E.I.C. Bengal Army. BM 1911,1333.
J. Franklin, 1829. On the geology of a portion of Bundelcand, Boghelcand and the districts of Suagor and Jabulpore *Trans. geol. Soc. Lond.* 3 (2nd series): 191–200.
- 1829** *Sinai Peninsula*, Lord Prudhoe (4th Duke of Northumberland). BM 71172–210 and 1911,1374.
S. Haughton, 1860. Notes of a mineralogical excursion from Cairo into Arabia Petrea. *Jl R. Dublin Soc.* 2: 161–75.
- circa 1830* *Java*, J. Rigg. BM 1911,1352.
J. Rigg, 1838. Sketch of the geology of Jasinga. *Verh. batav. Genoot. Kunst. Wet.* 17: 123–35.
- 1832** *India, Nagpur*, F. Jenkins. BM 1911,1328.
F. Jenkins, 1833. An account of some minerals, collected at Nagpur and its vicinity, with remarks on the geology etc. of part of the country. *Asiat. Reschs.* 18: 195–215.
- 1836** *India, Nilgiri Hills*, Dr P. M. Benza. BM 541 and 862–3.
Mysore, Southern India, Lt T. J. Newbold H.E.I.C. Madras Army. BM 72590–7. This collection is conceivably the remains of two larger collections referred to below.
T. J. Newbold, 1840. A cursory notice of the gold tract in the Kupputgode Range, manganese mines near Wodoorti, and flint excavation in the southern Mahratta country, the corundum pits of the western part of Mysore, and the diamond mines at Kurnool. *Madras J. Lit. & Sci.* 11: 42–8.
— 1840. II. List of minerals for presentation to the society, collected from various parts of the Nazams territories, ceded districts, Kurnool, the southern Mahratta country, Mysore & C. *Madras J. Lit & Sci.* 12: 16–30.

- 1837–8** *Bhutan*, Capt R. B. Pemberton. BM 78503–618 (India Museum Colln.).
W. Griffith, 1839. Journal of the mission which visited Bootan [sic], in 1837–8. *J. Asiat. Soc. Beng.* 8: 208–41.
- 1838** *India*, Capt T. Hutton. BM 55085 (India Museum Colln.).
T. Hutton, 1839–40. Journal of a trip through Kunawur, Hungrung, and Spiti, ... *J. Asiat. Soc. Beng.* 8: 901–49; 9: 489–513; and 9: 555–81.
- circa 1840** *India*, Lt Ouchterlony H.E.I.C. Madras Army. BM 72537–44 (India Museum Colln.).
Anonymous, 1841. Extract of a letter from Lieutenant Ochterlony [sic, but in fact Ouchterlony] Madras Engineers, dated 4th January, 1841. *Calcutta J. nat. Hist.* 2: 112–3.
China, Chusan archipelago, Lt Ouchterlony, H.E.I.C. Madras Engineers. BM 72545–7.
J. Ouchterlony, 1842. Geology. *Calcutta J. nat. Hist.* 2: 136–7.
- circa 1845** *Aden*, J. P. Malcomson H.E.I.C. Bombay Army. BM 54994 (India Museum Colln.).
J. P. Malcomson, 1846. Account of Aden. *Jl R. Asiatic Soc.* 8: 279–92.
- 1847–8** *India and Tibet*, Capt, later General, Sir Richard Strachey, originally of H.E.I.C. Bengal Army. This is a large and complex collection, BM 72140–248 was given to the India Museum in 1852. Other surviving material of Strachey's is registered under BM 54990 (1–336). The collection is probably that referred to in the publications below.
R. Strachey, 1851. On the geology of part of the Himalaya mountains and Tibet. *Q. Jl geol. Soc. Lond.* 7: 292–310.
— 1854. On the physical geology of the Himalaya. *Q. Jl geol. Soc. Lond.* 10: 249–53.
C. D. Sherborn, 1937. Palaeontology of Niti in the northern Himalayas, being descriptions and figures of the Palaeozoic and secondary fossils collected by Col Richard Strachey R.E. Description by J. W. Salter and H. F. Blanford. *J. Soc. Biblphy. nat. Hist.* 1: 108.
India, Bombay, G. Buist. BM 78461–502 (India Museum Colln.).
G. Buist, 1852. Geology of Bombay. *Trans. Bomb. geogr. Soc.* 10: 167–238.
- before 1852** *Kotah*, the Deccan, India, T.L. Bell. BM 1911,1326.
T. L. Bell, 1852. On the geology of the neighbourhood of Kotah, Deccan. *Q. Jl geol. Soc. Lond.* 8: 230–3.
— 1853. Further account of the boring at Kotah, Deccan: and a notice of an Ichthyolite from that place. *Q. Jl Geol. Soc. Lond.* 9: 351–2.
— 1854. Note on the fossils from Kotah, Deccan. *Q. Jl geol. Soc. Lond.* 10: 374.
- before 1853** *Pakistan*, the Salt Range, A. Fleming. BM 1911,1342; and 78619–725 (India Museum Colln.).
A. Fleming, 1853. On the Salt Range of the Punjab. *Q. Jl geol. Soc. Lond.* 9: 189–200.
— 1853. Report on the geological structure and mineral wealth of the Salt Range in the Punjab. *J. Asiat. Soc. Bengal* 22: 229–79.
D. T. Moore, 1982. Geological collectors and collections of the India Museum, London, 1801–79. *Archives of nat. hist.* 10 (Part 3): 399–428.
- 1854** *Eastern Turkey and western Iran*, W. K. Loftus. BM 71212–350.
W. K. Loftus, 1854. On the geology of portions of the Turko-Persian frontier and districts adjoining. *Q. Jl geol. Soc. Lond.* 10: 464–9.
— 1855. On the geology of portions of the Turko-Persian frontier, and the districts adjoining. *Q. Jl geol. Soc. Lond.* 11: 247–344.

- 1855** *China*, Soochow, W. H. Medhurst and J. Edkins. BM 1911,1306.
 [?] Biernatzki, 1857. W. H. Medhurst's Reise von Shangi nach dem Tien Muh-Gebirge. *Z. allg. Erdk. Berl.* Ser. 2 Band 2: 202–16.
 J. Edkins, 1857. Ausflug nach Hutscheu und Hangtscheu. *Z. allg. Erdk. Berl.* Ser. 2 Band 3: 205–17.
Northwestern Turkey, H. Poole. BM 1911,1366–8.
 H. Poole, 1856. On the coal of the northwestern districts of Asia Minor. *Q. Jl geol. Soc. Lond.* 12: 1–4.
- 1856** *Sarawak and Borneo*, J. Russell. BM 1911,1353.
 J. Russell, 1864. On the Tertiary coal of Borneo, Sarawak. *Proc. phil. Soc. Glasg.* 5: 246–54.
- before 1858** *Iran*, Elbuz Mountains, C. A. Murray. BM 1911,1356–7.
 C. A. Murray, 1858. On some mineral springs near Tehran, Persia. *Q. Jl geol. Soc. Lond.* 15: 198–9.
 — 1859. On some minerals from Persia. *Q. Jl geol. Soc. Lond.* 15: 605–6.
Northwestern Turkey, Capt T. A. B. Spratt, R.N. BM 1911,1372.
 T. A. B. Spratt, 1858. On the freshwater deposits of the Lavant. *Q. Jl geol. Soc. Lond.* 14: 212–9.
India, Col W. H. Sykes. BM 78333–460. [It is not clear at the time of writing whether the above collection is described]. (India Mus. Colln.)
- before 1863** *India*, Madras, Capt F. Applegarth. H.E.I.C. Madras Army. BM 1911,1317.
 F. Applegarth, 1863. On the geology of a part of Masulipatam District. *Q. Jl geol. Soc. Lond.* 19: 32–5.
- 1868** *Sinai, Egypt and Jordan*, H. Bauerman. BM 1911,1365.
 H. Bauerman, 1869. Note on a geological reconnaissance made in Arabia Petraea in the spring of 1868. *Q. Jl geol. Soc. Lond.* 25: 17–39.
- before 1873** *Southwestern Iran*, A. H. Schindler. BM 1911,1358.
 A. H. Schindler, 1873. Notes on the geology of Kazirun, Persia. *Q. Jl geol. Soc. Lond.* 29: 381.
- 1873–4** *Egypt, Sinai*, Dr C. T. Beke. BM 71211.
 J. Milne, 1878. Appendix A, 525–55. Geological notes on the peninsula of Pharan, northwestern Arabia and “Mount Sinai” (Mount Baghir). In: C. T. Beke. *The late Dr Charles Beke's discoveries of Sinai in Arabia and Midian*. Edited by his widow. Trübner & Co., London. 606pp.
- 1887** *Japan*, J. Milne. BM 72621–3158 and 63048.
- 1893** *Kashmir*, Sir William Martin Conway. BM 82894.
 W. M. Conway, 1894. *Climbing and exploration in the Karakoram Himalayas*. T. Fisher Unwin, London. 127pp.
 T. G. Bonney and C. A. Raisin, 1894. On rocks and minerals collected by Mr W. M. Conway in the Karakoram Himalayas. *Proc. R. Soc.* 55: 468–87.
Burma, Mogok, C. Barrington Brown and J. W. Judd. BM 1905,311–2.
 C. Barrington Brown and J. W. Judd, 1896. The rubies of Burma and associated minerals, their mode of occurrence, origin and metamorphosis. A contribution to the history of corundum. *Phil. Trans. R. Soc.* 187A: 151–228.
- 1897** *Mongolia and Manchuria*, W. M. Shockley. BM 83957.
- 1899** *Iran*, Lake Urumia, R. T. Günther. BM 84443.
 G. T. Prior. Appendix. In: R. T. Günther, 1899. Contributions to the geography of Lake Urmi and its neighbourhood. *Geogr. J.* 14: 504–23.
U.S.S.R. Pacific coast, W. H. Shockley. BM 85340.

- 1903-8** Sri Lanka, J. A. Daniel. BM 1953,208.
J. A. Daniel, 1908. *Administration Report Mineralogical Survey of Ceylon. E.3.* Colombo.
- 1924** Tibet/Nepal, Mount Everest Expedition. BM 1926,262.
N. E. Odell, 1925. Observations on the rocks and glaciers of Mt. Everest. *Geogrl. J.* **66**: 289-314.

Australasia

- 1801-5** Australia, Capt M. Flinders, R.N. and R. Brown. BM 75774-821 and 1911,1545.
M. Flinders, 1814. *A voyage to Terra Australis*. G. & W. Nicol, London. 2 vols.
W. H. Fitton, 1826. Appendix, 566-622. An account of some geological specimens collected by Captain P. P. King in his survey of the coasts of Australia, and by Robert Brown Esq, on the shores of the Gulf of Carpentaria, during the voyage of Captain Flinders. In: P. P. King, *Narrative of a survey of the intertropical and western coasts of Australia performed between the years 1818 and 1822*. Volume 2. John Murray, London. 2 vols.
P. I. Edwards, 1976. Robert Brown (1773-1858) and the natural history of Matthew Flinders voyage in HMS *Investigator*, 1801-5. *J. Soc. Bibply nat. Hist.* **7**: 385-407.
T. G. Vallance and D. T. Moore 1982. Geological aspects of the voyage of HMS *Investigator* in Australian waters, 1801-5. *Bull. Br. Mus. nat Hist. (Hist. ser.)* **10**(1): 1-43.
- 1817-18** Liverpool Plains etc., Australia, an unknown person. BM 1911,1578. [but conceivably by William Parr, a member of J. W. M. Oxley's Expedition].
J. Oxley, 1820. *Journals of two expeditions into the interior of New South Wales ... in the years 1817-18*. John Murray, London. 408pp.
- 1818-22** Australia, Capt P. P. King, R.N. BM 1911,1544, 1911,1551 and 1911,1553.
P. P. King, 1826. *Narrative of a survey of the intertropical and western coasts of Australia performed between the years 1818-22*. John Murray, London. 2 vols.
- before 1821** New South Wales and Tasmania, the Rev W. [SIC] Youl. BM 1911,1579.
- before 1822** New Zealand, North Island, an unknown person. BM 1911,1585-6.
[These specimens were not collected by Sir Humphry Davey (1778-1824) as stated by Campbell Smith and Game (1954) but perhaps by J. Davey.]
- 1829** Australia, Queensland and New South Wales, A. Cunningham. BM 1911,1577.
A. Cunningham, 1834. On the physical and geological structure of the country to the west of the Dividing Range, between Hunter's River (Lat 32°S) and Moreton Bay (Lat 27°S); with observations on the geology of Moreton Bay and Brisbane River, New South Wales. *Proc. geol. Soc. Lond.* **2**: 109-111.
- 1831** Western Australia, Archdeacon Scott. BM 1911,1556-7.
[T.H.] Scott, 1834. Geological remarks on the vicinity of Swan River and Isle Buâche or Garden Island on the coast of Western Australia. *Proc. geol. soc. Lond.* **1**: 320-1.
- 1831-6** New South Wales, Victoria and South Australia, Sir Thomas Livingstone Mitchell. BM 1911,1569.
T. L. Mitchell, 1838. *Three Expeditions into the interior of eastern Australia with descriptions of the recently explored region of Australia Felix and of the present colony of New South Wales*. T. & W. Boone, London. 2 vols.
- 1841** Tasmania, the expedition led by Sir James Clark Ross in HMS *Erebus* and *Terror*

(see also Antarctica and New Zealand). BM 66327–42, 66435–7, 66423, 69289–91, 75694, 75700, 66390, 75341–64, 1911, 1634.

R. M'Cormick, 1847. *Geology of Tasmania*. Appendix 1, 391–401. In: J. C. Ross, *A voyage of discovery and research in the southern and Antarctic regions during the years 1839–43*. John Murray, London. 2 vols.

New Zealand, North Island, the expedition led by Sir James Clark Ross in HMS *Erebus* and *Terror* (see also Tasmania and Antarctica). BM 75257 and 75651–64.

R. M'Cormick, 1847. *Geology of New Zealand*. Appendix 3, 404–11. In: J. C. Ross, *Op. cit. supra*.

- 1845** *South Australia*, Sir George Grey. BM 19127–415.
T. Burr, 1845. Account of Governor Grey's exploratory journey along the southeastern seaboard of South Australia. *Jl R. geogr. Soc.* **15**: 160–84.
— 1846. *Remarks on the geology and mineralogy of South Australia*. Andrew Murray, Adelaide. 32pp.
- 1847** *Queensland*, Sir Thomas Livingstone Mitchell. BM 21549–607.
T. L. Mitchell, 1848. *Journal of an expedition into the interior of tropical Australia in search of a route from Sydney to the Gulf of Carpentaria*. Longman, Brown, Green, Longman, London. 437pp.
- 1855** *New South Wales*, the Rev W. B. Clarke. BM 1911, 1571.
W. B. Clarke, 1855. On the occurrence of fossil bones in the auriferous alluvia of Australia. *Q. Jl geol. Soc. Lond.* **11**: 405–8.
- before 1860** *Western Australia*, F. T. and J. W. Gregory. BM 1911, 1559.
F. T. Gregory, 1861. On the geology of a part of Western Australia. *Q. Jl geol. Soc. Lond.* **17**: 475–83.
- before 1863** *Australia*, E. H. Hargraves. BM 1911, 1560.
Victoria, A. R. C. Selwyn. BM 1911, 1562–8.
A. R. C. Selwyn and G. F. Ulrich, 1866. *Notes sur la Géographie Physique, La Géologie et la Minéralogie de Victoria*. Melbourne Intercolonial Exhibition 1866. Alfred Mastermann, Melbourne. 127pp. See Addenda p. 177.
- before 1865** *New South Wales*, W. Keene. BM 1911, 1573.
W. Keene, 1866. On the examination of brown cannel, or petroleum, coal seams of Colley Creek, Liverpool Plains, New South Wales. *Q. Jl geol. Soc. Lond.* **22**: 435–8.
- 1866** *New South Wales*, the Rev W. B. Clarke. BM 1911, 1572.
W. B. Clarke, 1866. On the occurrence and geological position of oil-bearing deposits in New South Wales. *Q. Jl geol. Soc. Lond.* **22**: 439–48.
- before 1872** *Queensland*, R. Daintree. BM 83167–223. See notes on this collection in Campbell Smith and Game (1954: 187–8).
R. Daintree, 1872. Notes on the geology of the colony of Queensland. *Q. Jl geol. Soc. Lond.* **28**: 271–317.
- 1894** *Torres Straits*, A. C. Haddon. BM 77023–87.
A. C. Haddon, W. J. Sollas and G. A. J. Cole, 1894. On the geology of Torres Strait. *Trans. R. Ir. Acad.* **30**: 419–76.
- 1900** *New South Wales*, an unknown person. BM 87069.
G. W. Card, J. C. H. Mingaye and H. P. White, 1902. Analcite basalt from near Sydney. *Rec. geol. Surv. New South Wales* **7**: 93–101.
J. C. H. Mingaye and H. P. White, 1903. Notes and analyses of olivine basalt rocks from the Sydney district (No 1.). *Rec. geol. Surv. New South Wales* **7**: 226–30.

New Zealand, Dunedin, P. Marshall. BM 87071.

P. Marshall, 1906. The geology of Dunedin (New Zealand). *Q. Jl geol. Soc. Lond.* **62**: 381–422.

1907 *South Australia*, W. Howchin. BM 1911,1561.

W. Howchin, 1908. Glacial beds of Cambrian age in South Australia. *Q. Jl geol. Soc. Lond.* **64**: 234–59.

Europe

between 1768 & 1779 *Italy*, Monte Somma, Sir William Hamilton. BM 69034–7, and 80138.

before 1789 *Germany*, Thuringia, obtained by W. Babington. BM 1911,1106.

G. S. O. Lasius, 1789. *Beobachtungen über die Harzgebirge, als ein Beytrag zur mineralogischen Naturkunde* **2**. Hanover. 2 vols.

1810 *Iceland*, Sir George Steuart Mackenzie, H. Holland and R. Bright. BM 1911,1060.

G. S. MacKenzie, 1811. *Travels in the island of Iceland during the summer of the year 1810*. Archibald Constable & Co., Edinburgh. 491pp.

R. M. Kark and D. T. Moore, 1981. The Life, Work and geological collections of Richard Bright, MD (1789–1858); with a note on the collections of other members of the family. *Archives of nat. hist.* **10**: 119–51.

1814–15 *Hungary*, R. Bright. BM 1911,1294.

R. Bright, 1818. *Travels from Vienna through Lower Hungary, ... in the year 1814*. Archibald Constable & Co., Edinburgh. 642pp. with Appendices.

R. Bright, 1821. Remarks upon the hills of Badacson, Szigliget, etc. in Hungary. *Trans. geol. Soc. Lond.* **5** (1st series): 4–8.

R. M. Kark and D. T. Moore, 1981. *Op. cit. supra*.

1815 *Greece*, Tinos, L. Horner. BM 1911,1300.

1817 *Czechoslovakia*, Bohemia, C. A. von Zipser. BM 1911,1296.

C. A. von Zipser, 1817. *Versuch eines topographisch mineralogischen Handbuck von Ungern*. C. F. Wigand, Oedenburg. 440pp.

1818 *Germany*, Saxony, the Freyberg Collection acquired by H. Heuland. BM 1911,1167.

Hungary, G. S. Beudant. BM 1911,1297.

F. S. Beudant, 1822. *Voyage Minéralogique et Géologique en Hongrie*. Chez Verdier Libraire, Paris. 4 vols.

1819–21 *Switzerland*, Sir Henry Thomas De La Beche. BM 1911,1264.

Italy, Liguria Hills, Sir Henry Thomas de La Beche. BM 1911,1255.

H. T. de La Beche, 1834. On the geology of the shores of the Gulf of La Spezia. *Proc. geol. Soc. Lond.* **1**: 164–7.

France, Montpellier area, C. G. B. Daubeny. BM 1911,1194.

1821 *France*, Normandy, Sir Henry Thomas De La Beche. BM 1911,1181.

H. T. de La Beche, 1822. On the geology of the coast of France and the inland country adjoining. *Trans. geol. Soc. Lond.* **1** (2nd series): 73–89.

France, Auvergne, G. Poulett Scrope. BM 1911,1214.

G. P. Scrope, 1858. *The geology and extinct volcanoes of Central France*. John Murray, London. 258pp.

1822 *Greece*, Attica, J. Woods. BM 1911,1299.

J. Woods, 1822. Notice on the rocks of Attica. *Trans. geol. Soc. Lond.* **1** (2nd Series): 170–2.

- 1823** *Italy*, Vesuvius, T. Monticelli. BM 68180–204 and 68251–542.
Italy, Rome, Ischia and Vesuvius, G. Poulett Scrope. BM 1911, 1237–8, 1911, 1240 and 1911, 1242.
 G. P. Scrope, 1828. On the volcanic district of Naples. *Trans. geol. Soc. Lond.* **2** (2nd Series): 337–52.
 — 1827. Notice on the geology of the Ponza Isles. *Trans. geol. Soc. Lond.* **2** (2nd Series): 195–236.
France, Limoges, M. Schmitz. BM 1911, 1187.
- 1828** *France*, Auvergne, Sir Charles Lyell and Sir Roderick Impey Murchison. BM 1911, 1219.
 C. Lyell and R. I. Murchison, 1828. On the excavation of valleys, as illustrated by the volcanic rocks of central France. *Proc. geol. Soc. Lond.* **1**: 89–91.
 — — 1829. On the excavation of valleys, as illustrated by the volcanic rocks of central France. *Edinb. New phil. J.* **7**: 15–48.
- 1830** *Sardinia*, possibly Sir Charles Lyell. BM 1911, 1260.
Austria, A. Sedgwick and Sir Roderick Impey Murchison. BM 1911, 1292.
 A. Sedgwick and R. I. Murchison, 1832. A sketch of the structure of the eastern Alps; with sections through the newer formations on the northern flanks of the chain, and through the Tertiary deposits of Styria ... *Trans. geol. Soc. Lond.* **3** (2nd series): 301–420.
Spain, Col. C. Silvertop. BM 1911, 1232–4.
 C. Silvertop, 1830. On the lacustrine basins of Baza and Alhawa in the Province of Granada and similar deposits in other parts of Spain. *Edinb. New phil. J.* **9**: 336–49.
 — 1830. On the lacustrine basins ... (conclusion) *Edinb. New Phil. J.* **10**: 65–87.
 — 1836. *A geological sketch of the Tertiary formation in the provinces of Granada and Murcia*. Longman, Rees, Orme, Brown, Green & Longman, London. 236pp.
- 1833** *Spain*, G. B. Greenough. BM 1911, 1231.
Germany, Würtemberg, F. G. von Mandelsloh. BM 1911, 1105.
 [At the time of writing, it is not clear if the reference below is applicable to this collection.]
 F. Mandelsloh, 1835. Mémoire sur la constitution géologique de l'albe du Wurtemberg [sic]. *Mem. Soc. Hist. nat. Strasbourg.* **2**: 1–42.
- 1839** *England*, Kent and Sussex, Dr. G. Mantell. BM 2040–12393.
 London, England, cores from early nineteenth century well borings made by [Mr] Swan. BM 12427–13405.
- 1848** *Germany*, Oberstein near Kreuznach, W. J. Hamilton. BM 1911, 1101.
 W. J. Hamilton, 1848. The agate quarries of Oberstein. *Q. Jl geol. Soc. Lond.* **4**: 209–215.
- 1861** *Germany*, Saxony, L. Horner. BM 1911, 1108 and 1911, 1111.
Germany, Bavaria, *Czechoslovakia* and *Bohemia*, Sir Roderick Impey Murchison. BM 1911, 1287 and 1911, 1289.
 R. I. Murchison, 1863. On the gneiss and other azoic rocks, and on the superjacent Palaeozoic Formations of Bavaria and Bohemia. *Q. Jl geol. Soc. Lond.* **19**: 354–68.
 — 1863. On the Permian rocks of north-eastern Bohemia. *Q. Jl geol. Soc. Lond.* **19**: 297–306.

- 1875** Sweden, Elfdalen, purchased. BM 48873–77 and 48929–52.
G. T. Prior, 1901. Tinguaites from Elfdalen and Rupbachthal: Basalts from Madagascar and the Soudan [sic.]. *Mineralog. Mag.* **13**: 86–90.
- 1876** Hungary and Bohemia, J. W. Judd. BM 49609 (Hungary) and 49744–55 also 49760–1 (Czechoslovakia).
- 1877** A large collection of European rocks including British Carboniferous dolerites, from S. Allport. BM 85498 (1–2386) and a second collection acquired in 1893. BM 73734–4102. Some of Allport's specimens are almost certainly featured in the following.
S. Allport, 1869. On the basalt of south Staffordshire. *Geol. Mag.* dec 1. **6**: 115–6.
— 1870. On the basaltic rocks of the midland coalfields. *Geol. Mag.* dec 1. **7**: 159–62.
— 1871. On the microscopical structure and composition of a phonolite from the “Wolf Rock”. *Geol. Mag.* dec 1. **8**: 247–50.
J. J. H. Teall, 1888. *British Petrography*. Dulau Co., London. 469pp.
Hungary and Czechoslovakia, J. W. Judd. BM 66765–848.
- 1878** Iceland, J. W. Watts. BM 71113–52.
- 1879** France, Auvergne, acquired from H. Ludlam. BM 52580–3099.
- 1886** Belgium, M. F. L. Cornet. BM 1911,1168.
M. F. L. Cornet, 1886. On the Upper Cretaceous Series and the phosphate beds in the neighbourhood of Mons (Belgium). *Q. Jl Geol. Soc. Lond.* **42**: 325–39.
- circa 1888** Germany, Thuringia, F. C. B. H. Bücking. BM 1929,69 and 1930,203.
H. Bücking, 1888. Mittheilungen über die Eruptivgesteine der Schmalkalden (Thüringen). *Jb. preuss. geol. Landesanst. Berg. Akad.* **8**: 119–39.
- circa 1890** North Wales, C. A. Raisin. BM 1921,524; 526; 527 and 1921,528.
C. A. Raisin, 1889. On some nodular felstones of the Lley. *Q. Jl geol. Soc. Lond.* **45**: 247–69.
— 1891. On the lower limit of the Cambrian Series in N.W. Caernarvonshire *Q. Jl geol. Soc. Lond.* **47**: 329–42.
— 1892. The so-called serpentines of the Lley. *Geol. Mag.* n.s., dec. 3, **9**: 408–13.
— 1893. Variolite of the Lley, and associated volcanic rocks. *Q. Jl geol. Soc. Lond.* **49**: 145–63.
- 1891** North Wales, A. V. Jennings. BM 84478.
A. V. Jennings, 1891. Manod and the Moelwyns. *Q. Jl geol. Soc. Lond.* **47**: 368–83.
Germany, Fichtelgebirge, Bavaria, J. W. Gregory. BM 77755–77.
J. W. Gregory, 1891. The variolitic diabase of the Fichtelgebirge. *Q. Jl geol. Soc. Lond.* **47**: 45–62.
France/Italy border, the Cottian Alps, J. W. Gregory. BM 77687–754.
- 1894–7** Franz Josef Land, the Jackson-Harmsworth Expedition. BM 1905,227.
E. T. Newton and J. J. H. Teall, 1899. Appendix pp 867–84. In: F. G. Jackson, *Thousand days in the Arctic*. Harper & Brothers, New York and London. 940pp.
- 1898** Switzerland, A. V. Jennings. BM 84469.
A. V. Jennings, 1899. The geology of the Davos district (Switzerland). *Q. Jl geol. Soc. Lond.* **55**: 381–411.
- circa 1900** Trentino & Monzoni, Italy. Dame M. M. Ogilvie-Gordon. BM 1948,344.
M. M. Ogilvie-Gordon, 1902–3. The geological structure of Monzoni and Fassa. *Trans. Edinb. geol. Soc.* **8**: (special paper) 1–186.

- 1904** *England*, Cornwall, G. T. Prior. BM 1907,13.
G. T. Prior, 1904. Note on a pillow-lava apparently forming a continuous horizon from Mullion Island to Gorran Haven in Cornwall. *Geol. Mag.* n.s. dec. 4. 1: 447–9.
- Cyprus*, C. V. Bellamy. BM 86996.
C. V. Bellamy and J. A. Jukes-Brown, 1905. *The geology of Cyprus*. William Brendon, Plymouth. 72pp.
- 1905** *Italy*, South Tyrol, [then Austria] E. W. Skeats. BM 1905,314.
E. W. Skeats, 1905. On the chemical and mineralogical evidence as to the origin of the dolomites of southern Tyrol. *Q. Jl geol. Soc. Lond.* 61: 97–141.
- 1905–6** *Switzerland/Italy*, Simplon Tunnel. BM 1906,7.
- 1906** *Germany*, Bavaria, F. C. B. H. Bücking. BM 1924,472 and 1930,453.
H. Bücking, 1907. Über die Phonolite der Rhön und ihre Beziehungen zu den basaltischen Gesteinen. *Sber. preuss. Akad. Wiss.*: 669–99.
—— 1910. Die Basalte und Phonolite der Rhön, ihre Verbreitung und ihre chemische Zusammensetzung. *Sber. preuss. Akad. Wiss.*: 490–519.
- before 1908** *Switzerland*, Lötschberg Tunnel. BM 1908,307, 1909,649 and 1911,368.
- 1910** *England*, Cumbria, R. H. Rastall. BM 1912,531.
R. H. Rastall, 1910. The Skiddaw granite and its metamorphism. *Q. Jl geol. Soc. Lond.* 66: 116–41.

Oceanic Islands

- 1815** *St. Helena*, Col M. Wilks. BM 74146–68 (India Mus. Colln), and 1911,1627.
- 1822** *Cape Verde Islands*, H. T. Colebrook. BM 1911,1615–6.
- 1827** *Spitzbergen*, Surgeon R. M'Cormick on Sir William Edward Parry's arctic expedition. BM 1911,1603 and 66375–85.
W. E. Parry, 1829. *Narrative of an attempt to reach the north pole in boats fitted for the purpose and attached to His Majesty's Ship Hecla, under the command of Captain W. E. Parry R.N., F.R.S.* John Murray, London. 229pp.
- 1825–8** Various northern Pacific coasts, Lt Belcher R.N., later Admiral Sir Edward Belcher, on the voyage of H.M.S. *Blossom*. Specimens BM 74904–59 are from California [then Mexico] and Alaska [then Russia], BM 1911,1304, from Kamchatka, U.S.S.R. and BM 1911,1426 from Bering Straits, Alaska.
F. W. Beechey, 1831. *Narrative of a voyage to the Pacific and Beerings [sic] straits to co-operate with the polar expeditions; performed in His Majesty's Ship Blossom ... in the years 1825, 26, 27, 28.* Henry Colburn & Richard Bentley, London. 2 vols.
A. Collie, 1839. Geology. pp159–80. In: F. W. Beechey, *The Zoology of Captain Beechey's voyage*. Henry G. Bahn, London. 180pp.
- 1830** *Ascension Island*, Sir Charles Lyell [?]. BM 1911,1620.
- 1837** *St. Helena*, Dr P. M. Benza. BM 659,670–1 and 754.
- 1840** *Kerguelen*, Sir James Clark Ross, BM 66395–400, and 75051–207. See under Antarctica.
- 1841** *Canary Islands*, P. Baker Webb and S. Berthelot. BM 78726–9022.
P. Baker Webb and S. Berthelot, 1839. *Histoire naturelle des Iles Canaries*. Béthune, Paris. 3 vols. This material is described in the work by Prior, below.
G. T. Prior, 1903. Contributions to the petrology of British East Africa. Comparison of Volcanic rocks from the Great Rift Valley with rocks from

Pantelleria, the Canary Islands, Ascension, St. Helena, Aden and Abyssinia. *Mineralog. Mag.* **13**: 228–63.

W. T. Stern, 1937. On the dates of publications of Webb and Berthelot's *Histoire Naturelle des Iles Canaries*. *J. Soc. Bibliophy nat. Hist.* **1**: 49–64.

1859

Spitzbergen, J. Lamont. BM 1911,1604.

J. Lamont, 1860. Notes about Spitzbergen in 1859. *Q. Jl geol. Soc. Lond.* **16**: 428–44.

1876

Rodrigues Island, I. B. Balfour. BM 79026–171.

J. S. Maskelyne, 1879. Petrology. In The Collections from Rodrigues. *Phil. Trans. R. Soc.* **168**: 269–301.

1873–6

Rock collections from Islands visited by H.M.S. *Challenger*. The material listed below is the main collection. Off cuts of this were sent to Belgium and described by Renard. Remaining chips and prepared thin sections were returned in 1920 and registered as BM 1920,668. Hence the described material is registered under this latter number.

A. Renard, 1889. Report on the rock specimens collected on oceanic islands during the voyage of H.M.S. *Challenger* during the years 1873–1876. *Rep. scient. results Voy. Challenger*. Phys. Chem. **2**, Part 7.

Tenerife. BM 64588–606. *Op. cit. Supra* Rocks of Tenerife. 1–12. [Described specimens BM 1920,668 (20–38)].

Cape Verde Islands. BM 64607–32. *Op. cit.* Rocks of the Cape Verde Islands. 13–23. [BM 1920,668 (16–19)].

St. Thomas. BM 64633–41 and 65195. Rocks of St. Thomas (West Indies) 23–8.

Fernando Noronha. BM 64642–50. *Op. cit.* Rocks of Fernando Noronha. 29–39. [BM 1920,668 (8–15)].

Tristan da Cunha. BM 64588, 64735–73 and 1920,668. *Op. cit.* Notes on the rocks of the Tristan da Cunha group of Islands. 74–96. [BM 1920,668 (39–62)].

Ascension Island. BM 64651–734. *Op. cit.* Rocks of Ascension. 39–74. [BM 1920,668 (88–119)].

Falkland Islands. BM 64778–828 and 65225. *Op. cit.* Rocks of the Falkland Islands. 97–104.

Marion Island. BM 64830–9. *Op. cit.* Rocks of Marion Island. 104–7.

Kerguelen Island. BM 64840–993. *Op. cit.* Notes on the rocks of Kerguelen Island. 107–41.

Heard Island. BM 65226. *Op. cit.* Rocks of Heard Island. 142–8.

Fiji Islands. BM 64994–5004. *Op. cit.* Rocks of Kandava, Fiji Islands. 149–52.

Banda Islands. BM 65005–26. *Op. cit.* The volcano of Goonong Api (Banda Islands). 153–6.

Molucca Islands. BM 65028–42. *Op. cit.* Rocks from the volcano of Ternate. 157–60.

Philippine Islands. BM 65043–70. *Op. cit.* Rocks from the Philippine Islands. 160–75. [BM 1920,668 (1–7)].

Juan Fernandez. BM 65071–091. Rocks from the island of Juan Fernandez. 176–80.

Sandwich Islands. BM 65092–136.

Azores. BM 65154–92.

Bass Strait. BM 65204–7.

Torres Strait. BM 65215–16.

- St Paul Rocks*. BM 65137–53 and 1921,764 (50–51) described in A. Renard, 1885. Report on the petrology of the rocks of St. Paul (Atlantic). *Rep. Scient. Results Voy. Challenger*. Narrative 2. App B.
- 1887** *Fernando Noronha Island*, H. N. Ridley. BM 67040–207.
T. Davies, 1891. Geology of Fernando Noronha. In: H. N. Ridley, Notes on the botany of Fernando Noronha. *J. Linn. Soc.* 27: 86–94.
G. T. Prior, 1897. Note on the occurrence of rocks allied to monchiquite on the island of Fernando Noronha. *Mineralog. Mag.*: 11: 171–5.
Smith, W. Campbell, & Burri, C. 1933. The igneous rocks of Fernando Noronha. *Schweiz. miner. petrogr. Mitt.* 13: 405–34.
- 1891** *St. Helena*, R. L. Antrobus. BM 73549–645. This material was described by Prior, see below:
G. T. Prior, 1903. Contributions to the petrology of British East Africa, etc. ... *Mineralog. Mag.* 13: 228–63.
- 1892** *Pantelleria*. BM 68080–142, 68148 and 68157. This material also described by Prior. *Op. cit. supra*.
- 1896–9** *Fiji*, H. B. Guppy. BM 1910,355.
H. B. Guppy, 1903. *Observations of a naturalist in the Pacific between 1896 and 1899*. MacMillan, London. 2 vols.
Christmas Island, Indian Ocean, C. W. Andrews. BM 1912,690.
C. W. Andrews, 1900. *A monograph of Christmas Island (Indian Ocean); Physical features and geology (mammalia and Crustacea etc.)*. British Museum (Natural History), London. 337pp.
- 1910** *Azores* W. Child. BM 1912,155.
Canary Islands, Lanzarote., C. Gagel. BM 1911,1605.
C. Gagel, 1910. *Handbuch der Regionalen Geologie VII Band. 10. Abteilung. Die Mittelatlantischen Vulkaninseln*. Heidelberg.
- 1914** *Cape Verde Islands*, W. Child. BM 1915,130.
G. H. Part, 1950. Volcanic rocks from the Cape Verde Islands. *Bull. Br. Mus. nat. hist.* (Miner.) 1: 27–72.
- 1921–2** Shackleton—Rowett *Quest Expedition*.
Cape Verde Islands. BM 1927,1245.
Ascension Island. BM 1927,1246.
Azores. BM 1927,1244.
St. Paul Rocks. BM 1927,1248.
St. Helena. BM 1927,1247.
Tristan da Cunha. BM 1927,1252–3.
Weddell Sea, dredged specimens. BM 1927,1249.
South Sandwich Islands and South Georgia. BM 1927,1250–1.
F. Wild, 1923. The voyage of the *Quest*. *Geogr. J.* 61: 73–108.
— 1923. *Shackleton's Last Voyage. The story of the Quest*. Cassell & Co, London. 372pp with appendices.
G. V. Douglas, 1930. Topography and geology of South Georgia. 4–27. In: *Report on the Geological collections made during the voyage of the Quest on the Shackleton—Rowett Expedition in the South Antarctic and Weddell Sea in 1921–2*. British Museum, London. 161pp.
— & W. Campbell Smith, 1930. Zorodovskii Island, and notes on rock fragments dredged from the Weddell Sea. *Op. cit.* 63–6.
G. W. Tyrrell, 1930. Petrography and geology of South Georgia. *Op. cit.* 28–54.
C. E. Tilley, 1930. Petrological notes on rocks from Elephant Island. *Op. cit.* 55–62.

G. Douglas, 1930. Topography and geology of the Tristan da Cunha Group. *Op. cit.* 67–87.

W. Campbell Smith, 1930. Diego Alvarez or Gough Island. *Op. cit.* 88–104.

— 1930. Notes on the rocks collected on St. Helena. *Op. cit.* 105–7.

— 1930. Notes on the rocks collected on Ascension Island. *Op. cit.* 108–116.

G. M. Part, 1930. Report on the rocks collected from St. Vincent, Cape Verde Islands. *Op. cit.* 117–125.

H. S. Washington, 1930. The petrology of St. Paul's [sic] Rocks (Atlantic). *Op. cit.* 126–144.

1924–5

Marquesas Islands, the *St. George Expedition*. Maiao Island, and Tahiti Group. BM 1927,923. Marquesas Islands. BM 1931,361.

L. J. Chubb, 1930. The geology of the Marquesas Islands. *Bull. Bernice P. Bishop Mus.* 68: 1–71.

A Provisional Collectors Index

Adam, J. South Africa 1817, India *circa* 1819.

Adams, A. L. (d 1882) Egypt, before 1864.

Allport, S. (1816–97) British and various foreign countries before 1877.

Alluaud, M. Kenya before 1903.

Anderson, W. (1860–1915) Natal 1899–1900.

Andrew, A. R. Malawi 1909.

Andrews, C. W. (1866–1924) Christmas Island (Indian Ocean) 1897.

Antrobus, R. L. St. Helena 1891.

Applegarth, F. (1822–?1890) Madras, India before 1862.

Atherstone, W. G. (1814–98) South Africa 1871.

Attwood, G. (1845–1912) Costa Rica 1882.

Austin, H. T. Capt R.N. *Pioneer Arctic Expedition* 1851.

Babington, B. G. (1794–1866) [H.E.I.C. Madras Civil Service.] India 1818.

Babington, S. [H.E.I.C. Bombay Civil Service.] India 1819.

Babington, W. (1756–1833) India 1818–19.

Bain, A. G. (1797–1864) South Africa 1843.

Baker-Webb, P. (1793–1854) Canary Islands 1841.

Balfour, I. B. (1853–1922) Rodrigues Island 1876.

Bathurst, 3rd Earl (1762–1834) Sierra Leone 1820.

Bauerman, H. (1833–1909) Canada/U.S.A. Boundary Commission 1850–61 and Egypt 1868.

Bayfield, H. W. Lt R.N., later Admiral (1795–1886) Ontario 1826 and Quebec 1833.

Beechey, F. W. Captain R.N. (1796–1856) N. Pacific in H.M.S. *Blossom* 1825–8.

Beke, C. T. (1800–74) Sinai Peninsula 1873–4.

Belcher, E. Lt R.N., later Admiral Sir Edward (1799–1877). Northern Pacific in H.M.S. *Blossom* 1825–8.

Bell, T. L. India before 1852.

Bellamy, C. V. Cyprus 1904.

Benza, P. M. (1788–1839) St. Helena and India 1837.

Berthelot, S. (1794–1883) Canary Islands 1841.

Beudant, F. S. (1787–1850) Hungary 1818.

Blandford, W. T. (1832–1905) Ethiopia 1867–8.

Bollaert, W. (1807–76?) Chile before 1855.

Bonney, Rev. T. G. (1833–1923) see Royal Society Exped. to Egypt, 1885. Ecuador 1879.

Bonpland, A. J. A. (1773–1858) Venezuela 1799–1800.

Bowen, Lt R.N. Canada 1837.

Bowen, H. G. Trinidad before 1856.

Bright, R. (1789–1858) Iceland 1811, and Hungary 1815.

British, Australian, New Zealand Antarctic Research Expedition 1929–31.

British & Commonwealth Trans Antarctic Expedition 1955–8.

British Graham Land Expedition 1934–7.

Brown, C. B. Burma 1905.

- Brown, R. (1773–1858) and Flinders, M. Australia 1801–5.
 Buchanan, F., later Hamilton (1762–1829) India 1815.
 Bücking, F. C. B. H. (1851–1932) Thuringia *circa* 1888, Bavaria 1906.
 Buist, G. (1805–60) Bombay, India 1850.
 Burkart, J. (1798–1873) Mexico 1833.
 Burr, T. (fl 1839–60) South Australia 1845.
 Burton, J. (1788–1862) Egypt 1822–3.
 Byrd Antarctic Expedition 1928–30.
 Caldcleugh, A. Brazil 1819–21.
 Carmichael, Capt D. South Africa 1817.
Challenger Expedition 1873–6.
 Child, W. Azores *circa* 1911, Cape Verde Islands 1914.
 Clarke, Rev W. B. (1798–1878) New South Wales 1855 and 1866.
 Clapperton, H. (1788–1827) Expedition to Niger and Libya 1825.
 Colebrooke, H. T. (1765–1837) Bhutan *circa* 1820–21, and Cape Verde Islands 1822.
 Collie, A. (1793–1835) California and Alaska 1825–8.
 Conway, Sir William Martin (b 1856) Kashmir 1893 and Bolivia 1901.
 Cornet, M. F. L. (1834–87) Belgium 1886.
 Cowley, A. South Africa before 1912.
 Crawford, J. (1783–1868) Malaya, Thailand and China 1822, Burma 1827.
 Cunningham, A. (1791–1839) Australia 1829.
 Daintree, R. Queensland before 1872.
 Daubeny, C. G. B. (1795–1867) France before 1820.
 Dawson, Sir John William (1820–99) Egypt before 1886.
 Darwin, C. R. (1809–82) Argentina 1833–4.
 De La Beche, Sir Henry Thomas (1796–1855) Italy and Switzerland 1820 and France 1821.
 Denham, D. (1786–1828) Expedition to Niger and Libya 1825.
Discovery Antarctic Expedition 1901–4.
 Edkins, J. China 1855.
 Edwards, A. and Holdsworth. See Lord Selkirk. Manitoba, Canada before 1812.
 Edwards Leckie, Major R. G. Somalia before 1904.
 Elliot, G. F. S. (1862–1934) Sierra Leone and Egypt before 1893.
 Elliot, G. F. S. and Gregory, J. W. Uganda and Tanzania 1895.
 Evans, J. W. (1857–1930) Brazil 1893 and 1906.
 Everest Expedition 1924.
 Ferguson, D. Antarctica 1913–14 (The Salvesson Expedition).
 Ferrar H. T. (1879–1932) Antarctica 1901–4.
 Finlayson, G. (1790–1823) Thailand 1821–2.
 Fitzgerald, E. A. (1871–1930) The Andes 1899.
 Fitzroy, R. Capt R.N. (1805–1865) Chile and Argentina 1826–30.
 Fleming, A. (1822–1901) The Salt Range, Pakistan before 1853.
 Flett, Sir John Smith (1869–1947) St. Vincent, West Indies 1902.
 Flinders, W. Capt R.N. (1774–1814) and Brown, R. Australia 1801–5.
 Forbes, H. O. and Ogilvie Grant, W. R. Socotra before 1899.
 Flower, Capt S. Sudan 1899–1900.
 Foster, C. Le Neve Venezuela before 1869.
 Franklin, J. Capt R.N. (1786–1847) later Sir John Franklin. See Richardson, J.
 Franklin, J. Major (1783–1834) India before 1828.
 Fraser, J. B. (1783–1856) India 1820, and 1821–2.
 Gagel, C. (1865–1927) Canary Islands, 1910.
 Gerard, A. (1792–1839) India 1825.
 Gerard, P. (1794–1848) India 1825.
 Gesner, A. Nova Scotia, Canada before 1836.
 Giesecke, Sir Charles Ludwig (1761–1833) Greenland 1813.
 Greenough, G. B. (1778–1855) Spain 1833.
 Gregory F. T. and Gregory, J. W. (J. W. Gregory 1815?–50) Western Australia 1830–60.
 Gregory, J. W. (1864–1932) Kenya 1892–3, Germany and Italy 1895.

- Gregory J. W. and Elliot, G. F. S. Uganda and Tanzania 1895.
 Grey, Sir George (1812–1898) South Australia 1845.
 Gosset, Col M. Socotra 1888.
 Gunther, R. T. (b 1869) Iran 1899.
 Guppy, H. B. (1861–1948) Fiji etc. 1897–9.
 Guppy, R. J. L. (1836–1916) Trinidad 1870.
 Haddon, A. C. (b 1855) Torres Straits, Australia 1894.
 Hall, B. Capt R.N. (1788–1844) Java 1812–16, India and Sri Lanka 1814, China, Korea and Okinawa 1817, Chile 1821, Panama 1821–4, and U.S.A. 1828.
 Hamilton, Lady [not Lady Emma Hamilton (1761?–1815) but wife of the Governor of Newfoundland.] Newfoundland 1822.
 Hamilton, Sir William (1730–1803) Italy 1768–79.
 Hamilton, W. J. (1805–67) Germany 1848.
 Hargreave, E. H. (1816–91) Australia before 1863.
 Harmsworth and Jackson Expedition to Franz-Josef Land 1894–7.
 Hatch, F. H. (1864–1932) Transvaal 1897. Natal 1909.
 Hawkshaw, Sir John Clarke (1811–91) Egypt before 1867, Brazil 1875.
 Henwood, W. J. (1805–75) New Brunswick, Canada 1841.
 Heuland, H. (1778–1856) Saxony, Germany 1818.
 Heyne, B. (1770–1819) South Africa before 1816.
 Hobley, C. W. Kenya 1892–3, see also J. W. Gregory.
 Holdsworth, [?] and Edwards. See Lord Selkirk. Manitoba, Canada 1812.
 Holland, H. later Sir Henry (1788–1873) Iceland 1811.
 Holmes, A. (1890–1965) Mozambique 1911.
 Hooker, Sir Joseph Dalton (1817–1911) Chile 1842.
 Horner, L. (1785–1864) Tinos, Greece 1815, Egypt before 1855, Germany 1861.
 Horsfield, T. (1773–1859) Java *circa* 1811, Sumatra 1818.
 Howchin, W. (d 1937) Australia 1907.
 Humboldt, Baron Friedrich Heinrich Alexander (1769–1859) Venezuela 1799–1800.
 Hussak, E. Brazil 1890 and 1894.
 Hussak, D. U.S.A. 1826.
 Hutton, T. (1807–1874) India 1838.
 Inglefield, E. A. Capt R.N. Arctic Canada 1853.
 Jack, W. (1795–1822) Sumatra 1818.
 Jenkins, A. V. (1864–1903) Switzerland 1899.
 Johnston, Sir Henry Hamilton (1858–1927) Tanzania 1886, Uganda 1902.
 Jones, T. R. (1819–1911) South Africa before 1871, Somalia 1889, Swaziland 1899.
 Judd, J. W. (1840–1916) Czechoslovakia (Bohemia) and Hungary 1877, Burma 1905.
 Keene, W. (d 1872) Australia 1865.
 King, P. P. Capt R.N. (1791–1856) Australia 1818–21, Argentina and Chile 1826–30.
 King, S. Somalia 1889.
 Koettlitz, R. Ethiopia 1898.
 Lasius, G. S. O. (1752–1833) Germany 1808.
 Lacroix, A. F. A. (1863–1948) Madagascar before 1902.
 Lamont, J. (d 1913) Spitzbergen before 1860.
 Loftus, W. K. (1821?–58) Turkey and Iran 1854.
 Lort-Phillips, Mrs [E.] Somalia 1896.
 Ludlam, H. (1824–1880) France and elsewhere before 1879.
 Lyell, Sir Charles (1797–1875) Sardinia and Ascension Island 1830.
 Lyell, Sir Charles and Murchison, Sir Roderick Impey. Auvergne, France, 1828.
 Maclure, W. (1763–1840) U.S.A. 1818.
 Maclure, R. Capt R.N., later Sir Robert John Le Mesurier Maclure (1807–1873). See Inglefield, E. A. Capt R.N.
 MacKenzie, Sir George Steuart (1780–1848) Iceland 1810.
 Malcomson, J. P. (1803–1854) Aden *circa* 1845.
 Mandelsloh, F. G. von (1795–1870) Germany 1833.

- Mantell, G. (1790–1852) England 1839.
 Marshall, P. (1869–1950) New Zealand 1904.
 Mawe, J. (1764–1829) Brazil 1804.
 M'Cormick, R. (1800–90) Antarctic 1839–43, Arctic 1852–3, Chile 1842.
 Medhurst, W. H. (1822–85) and Edkins, J. China 1855.
 Milne, J. (1850–1913) Newfoundland 1874, Japan 1887.
 Mitchell, T. L., later Sir Thomas Livingstone (1792–1855) Australia 1838, and 1847.
 Molyneux, A. J. C. Zimbabwe 1902.
 Monticelli, T. (1759–1846) Italy 1823.
 Morrison, R. Lt R.N. Canada 1825.
 Murchison, Sir Roderick Impey (1792–1871) Bohemia and Bavaria before 1862.
 Murchison, Sir Roderick Impey and Lyell, Sir Charles, Auvergne, France 1828.
 Murchison, Sir Roderick Impey and Sedgwick, A. Austria before 1835.
 Murray, C. A. Iran before 1858.
- Nares, Sir George Strong (1831–1915) Arctic Expedition 1877.
 Newbold, T. J. (1807–1850) Lt [H.E.I.C. Madras army.] Madras, India c 1840, Egypt 1841.
 Nicol, or Nicoll, H. and Bathurst, 3rd Earl, Sierra Leone 1821.
 Noth, J. Orange Free State 1909.
 Nugent, N. Antigua before 1812.
- Ogilvie-Gordon, M. M. (1864–1939) Italy, *circa* 1900.
 Ogilvie Grant, W. R. and Forbes, H. O. Socotra before 1899.
 The Felix Oswald Expedition Kenya 1911.
 Ouchterlony, J. (1813–1887?) India and China *circa* 1840.
 Oudney, W. (1790–1824) Expedition to Niger and Libya 1825.
 Oxley, J. W. M. (1785?–1828) New South Wales, Australia 1817–18.
- Parish, Sir Woodbine (1796?–1882) Argentina 1833.
 Parkinson, J. Kenya 1912–13.
 Parry, Sir William Edward (1790–1855) Arctic Expeditions 1819–20 and 1823, Spitzbergen 1827.
 Pemberton, R. B. Capt (1798–1840) Bhutan 1837–8.
 Pentland, J. B. (1797–1873) Chile 1825, Peru and Bolivia 1827 and 1837–8.
 Poeppig, E. F. (1798–1868) Chile 1827.
 Poole, F. Queen Charlotte Islands before 1864.
 Poole, H. Turkey before 1856.
 Prior, G. T. (1863–1936) England 1904.
 Prudhoe, Lord, 4th Duke of Northumberland (1792–1865) Egypt 1829.
- Quest* Expedition to Oceanic Islands 1921–2.
- Raisin, C. A. (1855–1945) North Wales, *circa* 1890.
 Rastall, R. H. (1871–1950) England 1910, South Africa 1911.
 Richardson, J. (1787–1865), later Sir John Richardson, Arctic Canada 1825–7.
 Rickard, F. I. Argentina before 1863.
 Ridley, H. N. (1855–1936?) Fernando Noronha 1887.
 Rivero, M. E. de. Peru 1834.
 Romanes, J. Costa Rica 1910.
 Ross, J. C. Capt R.N., later Sir James Clark (1800–62) Antarctic Expedition 1839–43.
 Ross, J., later Sir John (1777–1856) Arctic Expedition of 1818.
 Royal Society Expeditions, Egypt 1885 and St Vincent (Soufrière) 1902.
 Rubidge, R. N. (d 1869) South Africa before 1856.
 Rumbold, W. R. Bolivia before 1909.
 Russell, J. Sarawak 1856.
 Ryan, S. Swaziland 1899—see T. R. Jones.
- Sawkins, J. G. Jamaica before 1862.
 Schimper, W. (1804–78) Ethiopia 1869.
 Schindler, A. H. Iran before 1873.
 Schmitz, M. France before 1823.

- Schomburgk, Sir Robert Hermann (1804–65) Guyana 1836, Dominican Republic (Hispaniola) before 1851, Barbados before 1845.
- Scott, [T. H.] Archdeacon (1783–1860) Western Australia before 1831.
- Scrope, G. Poulett (1797–1876) Auvergne, France 1821, Italy 1823.
- Sedgwick, A. (1785–1873) and Murchison, Sir Roderick Impey, Austria before 1835.
- Seligman, C. G. Sudan before 1912.
- Selkirk, Lord 5th Earl of (1771–1820) Canada 1812, and 1816. See Edwards, A.
- Selwyn, A. R. C. (1824–1902) Australia before 1863.
- Shackleton, Sir Ernest (1874–1922) *Nimrod* Antarctic Expedition 1907–9.
- Shaw, J. South Africa before 1871.
- Shockley, W. H. Mongolia and Manchuria 1898, Siberia before 1901.
- Silvertop, C. Col (d 1838) Spain before 1835.
- Skeats, E. W. Italy 1905.
- Smith, C. (1785–1816) and Tudor [?] Expedition to the Zaire River 1816.
- Southern Cross* Antarctic Expedition 1898–1900.
- Spratt, T. A. B. Capt R.N. (1811–88) Turkey before 1858.
- Stow, G. W. (1822–82) South Africa before 1871.
- Strachey, R. Capt, later General Sir Richard (1817–1908) India and Tibet 1847–8.
- Swan, [Mrs] London before 1839.
- St George* Pacific Expedition 1924–5.
- Sutherland, P. C. South Africa before 1855.
- Sykes, W. H. (1790–1872) India before 1860.
- Talbot, P. A. (1877–1945) Nigeria 1910–11.
- Tate, R. (1840–1901) Venezuela before 1869.
- Terra Nova* Antarctic Expedition 1910–13.
- Tudor, [Mr] & Smith, C. Expedition to the Zaire River 1816.
- Ulrich, G. F. & Selwyn A. R. C. Australia before 1863.
- Vines, S. & Fitzgerald E. A. Argentina and Chile 1899.
- Voysey, H. W. (circa 1791–1824) India 1819.
- Watts, J. W. Iceland 1878.
- Webster, J. W. U.S.A. before 1816.
- Whymper, E., later Sir Edward (1840–1911) Ecuador 1879–80.
- Wild, F. (1878–1939) Antarctica 1901–4.
- Wilkinson, Sir John Gardner (1797–1875) Egypt circa 1830.
- Wilks, M. Col (1760?–1831) St Helena 1815.
- Wills, Rev J. Madagascar 1889.
- Winterbottom, J. E. (1803–1854) India and Tibet 1852.
- Wolf, T. Ecuador before 1874.
- Woods, J. (1776–1864) Greece 1822.
- Youl, W. Rev [Rev J. Youl (1773–1827)?] Australia before 1821.
- Zipser, C. A. (1783–1864) Czechoslovakia before 1817.

Geographical Index

- Antarctica 1839–43, 1898–1900, 1901–4, 1907–9, 1910–13, 1913–14, 1928, 1929–31, 1934–7 and 1955–8.
- Antigua 1812.
- Argentina 1825, 1826–30, 1833, 1833–4, before 1863, and 1898.
- Ascension Id. 1830, 1873–6 and 1921–2.
- Australia 1801–5, 1817–18, 1818–22, before 1821, 1829, 1831, 1831–6, 1841, 1845, 1847, 1855, before 1860, before 1863, before 1865, 1866, before 1872, 1894, 1900 and 1907.
- Azores 1910–11 and 1921–22.
- Banda Ids 1873–6.
- Barbados (W.I.) 1812 and before 1845.
- Belgium 1886.

- Bhutan 1820, and 1837–8.
Bolivia 1833, 1837–38, 1898 and 1909.
Borneo 1856.
Brazil 1804, 1819–21, 1875, 1893, before 1890, before 1894 and 1906.
Burma 1827 and 1893.
Canada before 1812, 1818, 1819–21, 1822, 1823, 1825, 1826, 1825–27, 1833, before 1836, 1837, 1841, 1851, 1852, 1853, 1859–61, 1864 and 1874.
Canary Ids 1841, 1873–6 and 1910.
Cape Verde Ids 1822, 1873–76, 1914 and 1921–22.
Chile 1820–22, 1825, 1826–30, 1827, 1833, *circa* 1840, 1842, 1855 and 1898.
China 1822, *circa* 1840 and 1855.
Christmas Id (Indian Ocean) 1896–99.
Costa Rica 1882 and 1910–11.
Cyprus 1904.
Czechoslovakia 1817, 1876 and 1877.
Dominican Republic (Hispaniola) before 1851.
Ecuador before 1874 and 1879–80.
Egypt 1822–23, *circa* 1830, 1840, before 1855, before 1864, before 1867, 1868, 1873–74, 1885 and 1892.
England 1839, 1904 and 1910.
Ethiopia 1867–68, and 1898.
Falkland Ids 1873–76.
Fernando Noronha 1876 and 1887.
Fiji 1873–76 and 1896–99.
France 1819–21, 1821, 1823, 1828, 1879 and 1891.
Germany before 1789, 1818, 1848, 1861 and 1891.
Greece 1815 and 1822.
Greenland 1813 and 1875–76.
Guyana 1836.
Heard Id 1873–76.
Hungary 1814–15, 1876 and 1877.
Iceland 1810 and 1878.
India 1815, 1818, 1819, 1820, 1821–22, 1825, 1828, 1832, 1836, 1838, *circa* 1840, before 1850, before 1852, before 1858 and before 1863.
Iran 1820, before 1858 and 1873.
Italy between 1768 and 1779, 1823, 1830, 1891, *circa* 1900, 1905 and 1905–6.
Jamaica before 1862.
Japan 1887.
Java 1801–19 and 1812–16.
Kashmir 1893.
Kenya 1892, 1894, 1903 and 1911.
Kerguelen Id 1840, 1873–76.
Libya 1824.
Madagascar 1889 and 1899–1900.
Malawi 1909.
Malaya 1822.
Manchuria 1897.
Marion Id 1873–76.
Marquesas Ids 1924–25.
Mexico 1833.
Moçambique 1911.
Molucca Ids 1873–76.
Mongolia 1897.

New Zealand before 1822, 1841 and 1900.

Niger 1824.

Nigeria 1910–11.

Pakistan before 1853.

Panama 1820–22.

Pantelleria 1892.

Peru 1827, 1834 and 1837–38.

Philippine Ids 1873–76.

Rodrigues Id 1876.

Sierra Leone 1820 and 1892.

Socotra 1888, before 1899.

Somalia 1888, before 1896 and 1904.

South Africa 1816, 1817, *circa* 1843, before 1855, 1858, before 1871, 1871, before 1874, 1897, 1899–1900, 1909 and 1912.

South Sandwich Ids including South Georgia 1921–22.

Spain 1830 and 1833.

Spitzbergen 1827 and 1859.

Sri Lanka 1814.

St Helena 1815, 1837, 1891 and 1921–22.

St Paul Rocks 1873–76 and 1921–22.

St Thomas (W.I.) 1873–76.

St Vincent (W.I.) 1902.

Sudan 1899–1900 and 1912.

Sumatra 1818 and 1821–22.

Swaziland 1898 and 1899–1900.

Sweden 1875.

Switzerland 1819–21, 1898, 1905–6 and before 1908.

Thailand 1822.

Tanzania 1885 and 1894.

Tibet 1847–8.

Torres Strait 1873–76 and 1894.

Trinidad before 1856 and 1870.

Tristan da Cunha 1873–76 and 1921–22.

Turkey 1854, 1855 and before 1858.

Uganda 1892, 1894 and 1902.

U.S.A. 1816, 1818, 1826, 1827, 1828 and 1859–61.

U.S.S.R. (Kamchatka) 1825–28.

Venezuela 1799–1804, and before 1869.

Wales *circa* 1890 and 1891.

Zaire 1816.

Zimbabwe 1902.

Addenda

Since going to press the following references have been shown to be applicable.

Page 163

1901–5

W. H. Fitton, 1826. An account of some geological specimens ... *Phil. Mag.* 68: 14–34.

—, 1826. *An account of some geological specimens from the coast of Australia.* Printed by W. Clowes, London. 64pp + map.

before 1821

T. G. Vallance and D. T. Moore, 1982. *Op.cit.supra.*: 36.

Page 164

before 1863

A. R. C. Selwyn and G. H. F. Ulrich. 1866. *Notes on the Physical Geography, Geology and Mineralogy of Victoria.* Intercolonial Exhibition 1866 Official Record. Blundell & Ford, Melbourne. 92pp.

Australasia